

Berna Hascakir

Phone Number: +1 979 845 6614

Email: hascakir@tamu.edu

BIOGRAPHY

Berna Hascakir is a Full Professor of Petroleum Engineering at Texas A&M University and an internationally recognized leader in energy research, with expertise in enhanced oil recovery, flow assurance, oilfield water management and treatment, thermal and microwave-assisted processes, hydrogen generation from hydrocarbons, and carbon management. Her work integrates fundamental reaction-driven transport phenomena with field-scale applications, delivering sustained academic and industrial impact.

Professor Hascakir has secured over \$4 million in competitive external research funding, with an additional \$1.7 million currently pending. Her research program is distinguished by long-term, high-value industry partnerships, including an ongoing four-year collaboration with Hunt Energy, which has contributed more than \$1.5 million to her laboratory to date. She has also led multi-year research programs with Chevron on heavy oil recovery and currently serves as a principal investigator on a DOE-funded multi-institutional project involving Texas Tech University, Howard University, and the University at Buffalo. Her collaborative research with Texas Tech further includes federally supported work on hydrogen generation from oil using microwave-assisted technologies, building directly on her doctoral training in microwave-based processes.

Her scholarly record includes approximately 54 peer-reviewed journal articles and 134 refereed conference proceedings. Her work has received more than 3,600 citations, with over 2,100 citations since 2020, corresponding to an h-index of 34 and an i10-index of 87, reflecting accelerating research impact. Professor Hascakir holds multiple patents related to flow assurance and asphaltene precipitation, including technologies that were successfully field-tested in more than 50 Gulf of Mexico wells. She has also co-authored over 40 peer-reviewed publications with undergraduate researchers, demonstrating an exceptional commitment to early-stage research training.

Professor Hascakir has an established record of mentorship and workforce development. She has supervised and graduated 2 postdoctoral researchers, 9 PhD students, 17 MS students, and 4 MEng students. She currently advises 7 PhD, 3 MS, and 2 MEng students, in addition to mentoring 5 active undergraduate researchers, with 39 undergraduate research projects completed under her supervision. Her graduate students are consistently encouraged to publish and present at national and international conferences, preparing them for leadership roles in academia, industry, and national laboratories.

An award-winning educator, Professor Hascakir has taught a broad range of undergraduate and graduate courses over the past 13 years, educating more than 1,800 students. She is the only faculty member in her department to have received the SPE Innovative Teaching Award and also

the only recipient of the SPE Health, Safety, and Environment Award within her department. Her teaching evaluations consistently exceed departmental averages, reflecting her strong commitment to student learning, innovative assessment strategies, and continuous improvement in teaching practice.

Professor Hascakir was elected as an EOR Woman under the IEA EOR Technology Collaboration Programme (2021) and has been a Distinguished Member of the Society of Petroleum Engineers since 2018. She is also a recipient of the SPE Junior Faculty Research Grant (2014), an award held by only a small number of faculty within her department. In addition to her research and teaching roles, she serves as Editor-in-Chief of Petroleum Science and Technology and has been an editor for Fuel since 2020, providing international leadership in scholarly publishing.

Collectively, Berna Hascakir's sustained research funding, long-term industry engagement, high-impact scholarship, nationally recognized teaching excellence, and extensive professional service position her as a leading contributor to petroleum engineering and energy research at Texas A&M University and globally.

DEGREES

Postdoc, 2008-2010. Energy Resources Engineering, Stanford University, Stanford, California, USA.

Ph.D., 2003-2008. Petroleum and Natural Gas Engineering, Middle East Technical University, Ankara, Turkey.

Visiting PhD Student, 2007-2008. Petroleum Engineering, University of Alberta, Edmonton, Alberta, Canada.

M.Sc., 2001-2003. Environmental Technologies, Dokuz Eylul University, Izmir, Turkey

B.Sc., 1996-2001. Environmental Engineering, Dokuz Eylul University, Izmir, Turkey

WORK EXPERIENCE

A. Academic Appointments

1. **Full Professor (Tenured), Sep. 2024-Present,** Petroleum Engineering Department, Texas A&M University, College Station, TX.
2. **Associate Professor (Tenured), Sep. 2018-Aug. 2024,** Petroleum Engineering Department, Texas A&M University, College Station, TX.
3. **Assistant Professor (Tenure-Track), Apr. 2012-Aug. 2018,** Petroleum Engineering Department, Texas A&M University, College Station, TX.
4. **Research and Teaching Assistant, 2008,** Graduate School of Natural and Applied Sciences, Inonu University, Malatya, Turkey.

5. **Research and Teaching Assistant, 2004-2008**, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, Turkey.
6. **Project Assistant, 2004-2008**. Supported by BAP (Scientific Research Projects) and TÜBİTAK (The Scientific & Technological Research Council of Turkey), METU, Ankara, Turkey.

B. Industry Experience

7. **Senior Heavy Oil Engineer, 2011-2012**, Schlumberger, Bogota Colombia.
8. **Consultant, 2011**, Pacific Rubiales Energy, Bogota, Colombia.
9. **Reservoir Simulation Engineer, 2011**, Schlumberger AbTc, Abingdon, UK.
10. **Reservoir Simulation Engineer, 2010**, Schlumberger PTT, Puerto La Cruz, Venezuela.
11. **Environmental Engineer, 2003**. Harmandali Waste Disposal Site, Izmir, Turkey.
12. **Intern, Summer of 2002**, Kaplamin Corrugated Packaging Industry, Izmir, Turkey.
13. **Project Assistant, 2001-2003**, Center for Environmental Research and Development, Dokuz Eylül University (ÇEVMER), Izmir, Turkey.
14. **Computer Instructor, 2001-2003**, Altın Computer Course, Izmir, TURKEY and Mimar Kemalettin Elementary School, Izmir, Turkey.
15. **Intern, Summer of 2000**, Ministry of Environment, Antalya, Turkey.
16. **Intern, Summer of 1998**, Field practice on Topography. Izmir, Turkey.

C. Administrative Appointments

17. **Graduate Mentoring Academy Fellow, Sep. 2024-Present**, Graduate Mentoring Academy, Texas A&M University, College Station, TX.
18. **Master Facilitator, 2023-2024**, Graduate Mentoring Academy, Texas A&M University, College Station, TX.
19. **ADVANCE Administrative Fellow, 2021-2022**, College of Engineering, Texas A&M University, College Station, TX.

AWARDS, HONORS, AND RECOGNITION

A. International Level

1. **2021 The EOR Women, 2022**. IEA EOR TCP (International Energy Agency- Enhanced Oil Recovery- Technology Collaboration Program)
2. **SPE Distinguished Member, 2018**. Society of Petroleum Engineers (SPE).

3. **SPE Innovative Teaching Award, 2015.** Society of Petroleum Engineers (SPE).
4. **Top 10 Associate Editors, 2014.** Journal of Petroleum Science and Engineering, Elsevier.
5. **SPE Junior Faculty Research Grant, 2014.** Society of Petroleum Engineers (SPE).

B. National Level

6. **SPE Regional Health, Safety and Environment Award 2024,** Society of Petroleum Engineers (SPE) Gulf Coast North America Region.

C. University Level

7. **ADVANCE Diversity Champion Recognition, 2022,** Texas A&M University, College Station, TX.

D. Departmental Level

8. **Michael and Heidi Gatens Professorship, Dec. 2024-Present,** Petroleum Engineering Department, Texas A&M University, College Station, TX.
9. **David Dunlap '83 Faculty Award for Excellence in Service, 2022.** Petroleum Engineering Department, Texas A&M University, College Station, TX.
10. **Flotek Industries, Inc. Career Development Professor, Jan. 2019-Dec.2024,** Petroleum Engineering Department, Texas A&M University, College Station, TX.
11. **Stephen A. Holditch Faculty Fellow, Nov. 2015- Oct. 2018,** Petroleum Engineering Department, Texas A&M University, College Station, TX.

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS (1 Distinguished Membership and 4 Membership)

1. Society of Petroleum Engineers (SPE), since 2004, and Distinguished Member since 2018.
2. American Chemical Society (ACS), since 2015
3. The Combustion Institute, since 2015
4. American Association of University Professors (AAUP), since 2014
5. Chamber of Turkish Environmental Engineers, since 2002

TEACHING

A. Instructing

I. Teaching As an Instructor in Higher Education **Total Enrollment: 1,802 Students, Since April 2012.**

1. PETE 314- Transport Processes in Petroleum Production, 12 Semesters, Since Fall 2019. Petroleum Engineering Department, Texas A&M University, College Station, TX.
2. ICPE 614, CO₂ Sequestration, 3 semesters, Since Summer 2020. Energy Institute, Texas A&M University, College Station, TX.
3. PETE 409/609, Enhanced Oil Recovery, 10 semesters, Since Summer 2014. Petroleum Engineering Department, Texas A&M University, College Station, TX.
4. PETE 310, Reservoir Fluids, 6 semesters, Since Spring 2014. Petroleum Engineering Department, Texas A&M University, College Station, TX.
5. PETE 606, Thermal EOR Processes, 3 semesters, Since Fall 2012. Petroleum Engineering Department, Texas A&M University, College Station, TX.
6. PETE 623- Waterflooding, 2 semesters, Since Summer 2015. Petroleum Engineering Department, Texas A&M University, College Station, TX.

II. Teaching Additional Teaching Activities in Higher Education **Total enrollment: 270 Since 2022.**

1. Aligning Expectations in Mentoring (AE), 2023- Graduate Academy Fellow, Center for Teaching Excellence (GMA)
2. Supporting Well-Being in Mentoring (Previously AEI)
3. Addressing Equity and Inclusion, Attendance (AEI)
4. Promoting Professional Development (PPD) in Mentoring
5. Maintaining Effective Communication (MEC) in Mentoring
6. Fostering Independence in Mentoring (FI)
7. Aligning Expectations in Mentoring (AE)
8. Assessing Understanding (AU) in mentoring

III. Teaching As a Teaching Assistant (between 2003-2007) Total enrollment: 280, Between 2003-2007.

1. PETE 342 – Petroleum Reservoir Engineering I, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, Turkey.
2. PETE 211 – Introduction to Fluid Mechanics, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, Turkey.
3. PETE 441 – Petroleum Reservoir Engineering II, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, Turkey.
4. PETE 216 – Reservoir Rock & Fluid Properties, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, Turkey.
5. ES 202 – Mathematics for Engineers, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, Turkey.
6. PETE 110 – Introduction to Petroleum Engineering, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, Turkey.

IV. Teaching As an Instructor in Elementary Schools Total Enrollment: 1,700 Students, between 2001-2003.

1. Computer, 2002-2003. Mimar Kemalettin Elementary School, Izmir, Turkey.
2. Computer- 2001. Altin Computer Course, Izmir, Turkey.

B. Advising

- I. Undergraduate Advising (Continuing: 6; Completed: 38)
- II. Graduate Advising (Continuing: 6 PhD, 3 MS, and 2 MEng; Graduated: 9 PhD, 18 MS, and 3 MEng)
- III. Committee Member: 20 PhD (3 outside department at A&M and 8 international/outside A&M), 16 MS (7 outside department at A&M and 2 international/outside A&M), 2 MEng
- IV. Professional Students/Interns/Residencies Advising (Continuing: 0; Completed: 21 (19 BS, 1 MS, 1 PhD))
- V. Faculty Mentoring (nonstudents) (Total 5)

C. Professional Presentations/Invited Speaker/Media (51 invitations)

1. Keynote Speech, 2026-08-23/27. Management of Heavy Oil Reservoirs, Environmentally Sustainable Technologies for Heavy Crude Oil and Bitumen Production, Opportunities, and Low-Cost Solutions, Event Name: Energy and Fuel (ENFL), Geochemistry (GEOC), and Environmental (ENVR) Divisions of the American Chemical Society (ACS) and the Sustainable Development Technical Section (SDTS) of the Society of Petroleum Engineers (SPE), Chicago, USA.
2. Guest Speech, 2026-04-08. Produced Water Management in Unconventional and Thermal Operations: Challenges, Opportunities, and Low-Cost Solutions, Nexus OFS Webinar- UAE-based training and engineering services, Abu Dhabi, United Arab Emirates.
3. Guest Speech, 2025-10-23. Ultramafic Rock-Based Filters for CO₂ Capture in Simulated Emission Streams, Event Name: Nexus OFS Webinar- UAE-based training and engineering services, Abu Dhabi, United Arab Emirates.
4. Panelist, 2025-10-22. Harnessing innovation combatting climate change in the 21st century Ultramafic Rock, MSC Wiley Symposia-Texas A&M University, College Station, TX.
5. Guest Speech, 2025-10-09, What is Petroleum Engineering? K-12 Career Day, Pearland ISD, Pearland, TX.
6. Plenary Talk, 2025-08-09, Serpentinization: A Rapid and Permanent Solution for Carbon Capture and Storage, ACS Fall 2025 Digital Meeting Global Virtual Symposia (GVS).
7. Guest Speech, 2025-04-19, Olmaz Demeyin, Deneyin: İmkânsızdan Mümküne Yolculuk (Don't Say It's Impossible, Try It: A Journey from the Impossible to the Possible), Turkish Educational Foundation.
8. Guest Lecturer, 2025-01-09, Carbon Challenges in Climate and Petroleum Engineering: A Path Toward Sustainability, SEG-SPG-EAGE Student Chapter at Pandit Deendayal Energy University (PDEU), Gandhinagar, India.
9. Online Lecturer, Date: 2024-14-11, Introduction to Thermal EOR Methods, JNTUK SPE Student Chapter, Jawaharlal Nehru Technological University, Ramanayyapeta, Andhra Pradesh, India.
10. Keynote Speech, 2024-09-10, Carbon Capture and Storage Processes, 4th International Conference on Energy, Environment, and Storage of Energy, Kapadokya, Nevsehir, Turkey.
11. Panelist, 2024-03-10, Turkish women petroleum engineers working abroad, by Turkish Chamber of Petroleum Engineers, Women's Working Group, Ankara, Turkey.
12. Plenary Speaker, 2023-11-20, Reservoir Rock Contribution to In-situ Combustion Performance, Thermal EOR Workshop in Ankara, Turkey.

13. Guest Speech, 2023-3-29, Involvement of Petroleum Engineers in Carbon Capture, Utilization, and Storage Projects, Society of Petroleum Engineers, University of Batna 2-chapter, Hassi Messaoud Section, Algeria.
14. Graduate Seminar Speech, 2023-3-24, In-situ combustion: the most promising enhanced oil recovery method, Department of Petroleum Engineering at the University of Houston, Houston, TX.
15. Keynote Speech, 2022-11-5, Energy Transition and Future of Thermal-EOR, Thermal Methods for Enhanced Oil Recovery, ThEOR 2022, Baku Azerbaijan.
16. Graduate Seminar Speech, 2022-10-28, Net-zero carbon emissions and the future of petroleum engineering, Craft and Hawkins Department of Petroleum Engineering at the Louisiana State University (LSU), Baton Rouge, Louisiana.
17. Panelist, 2022-10-22, Energy Transition and Future of EOR, The International Energy Agency Technology Collaboration Program for Enhanced Oil Recovery (IEA EOR TCP), the Global vision Task forces emerging technologies-Virtual, Bogota, Colombia.
18. Guest Speech, 2022-09-22, Effectiveness of Electromagnetic Wave Applications in Petroleum Reservoirs, The Heavy Oil Community of Practice within Chevron, Bakersfield, California-Virtual.
19. Graduate Seminar Speaker, 2022-04-22, Net-zero carbon emissions and the future of petroleum engineering, Mewbourne College of Earth and Energy, Mewbourne School of Petroleum and Geological Engineering, The University of Oklahoma.
20. Keynote Speech, 2021-12-21, Factors Affecting Electromagnetic Wave propagation in Heavy Oil Reservoirs, Thermal Methods for Enhanced Oil Recovery, ThEOR 2021, Virtual.
21. Guest Speech, 2021-10-25, Everything You Need to Know About Graduate Study, Texas A&M University, Doha, Qatar.
22. Graduate Seminar Speech, 2021-10-22, Effectiveness of Electromagnetic Wave Applications in Petroleum Production, Bob L. Herd Department of Petroleum Engineering, Texas Tech University.
23. Panelist, 2021-07-17, Carbon dioxide flooding for heavy oil recovery: how to maintain miscibility, The International Energy Agency Technology Collaboration Program for Enhanced Oil Recovery (IEA EOR TCP), the Global vision Task forces emerging technologies.
24. Keynote Speech, 2021-07-07, Solvent selection for heavy oil recovery with minimum environmental impact, SPE Colombia Heavy Oil Annual Meeting, Big Challenges, Heavy Solutions-Virtual.
25. Guest Speech, 2021-05-20, How to optimize a miscible EOR flood with minimal environmental impact, SPE Gulf Coast Section, Reservoir Study Group-Virtual.

26. Guest Lecturer, 2021-05-14, Can zero emissions be a realistic objective? Future of Petroleum Engineering, SPE Student Chapter –SPE Ecuador Section, Ecuador.
27. Guest Lecturer, 2020-12-07, Environmental Impact of Oil and Gas Production- Part 1: Gas Emissions, SPE Student Chapter –University of Belgrade, Serbia -Virtual.
28. Webinar Speaker, 2020-11-13, Introduction to Thermal Enhanced Oil Recovery Methods, SPE Student Chapter-Universidad del Noreste (UNE), Mexico-Virtual.
29. Keynote Speech, 2020-10-29, Ataturk, Me, and Reformed Republic, Texas A&M University, Turkish Student Association, -Virtual.
30. Graduate Seminar Speaker, 2019-02-05, Who to Blame for Climate Change, Petroleum Engineering Department, Texas A&M University, College Station, TX.
31. Graduate Seminar Speaker, 2018-12-02, Contribution of Oil and Gas Industry to Global Warming, Texas A&M University, Doha, Qatar.
32. Graduate Seminar Speaker, 2018-11-26, Factors Affecting Asphaltenes Stability, Petroleum and Geosystem Engineering Department, UT at Austin, TX.
33. Webinar Speaker, 2017-10-19, Factors Affecting Asphaltenes Stability, Schlumberger Heavy Oil Special Interest Group, Mexico City, Mexico.
34. Workshop Leader, 2017-09-18, Enhancing the proper management and treatment of produced water for reinjection purposes, Unconventional Completions Conference, Houston, TX.
35. Seminar Speaker, 2017-04-07, The Effectiveness of Microwave Heating for High Asphaltenes Content Oil Reservoirs, Chevron Cooperation, Richmond Technology Center, Richmond, California, USA.
36. Guest Lecturer, 2017-03-14, Enhanced Oil Recovery, PETE 402-Section 502-503: Integrated Asset Development, Location, Petroleum Engineering Department, Texas A&M University, College Station, TX.
37. Panelist, 2016-08-22, New Faculty Orientation, The Office of Dean of Faculties, Texas A&M University, College Station, TX.
38. Lunch and Learn, 2016-07-30, Solvent-Steam Processes: Benefits and Drawbacks, RPE Chevron, Houston, Texas, USA.
39. Plenary Lecturer, 2016-06-30, The Impact of Asphaltenes on Thermal EOR Performance, Thermal Methods for Enhanced Oil Recovery, TheOR 2016, Kazan, Russia.
40. Graduate Seminar Speaker, 2016-06-28, Fundamentals of Miscible Flooding, Petroleum Engineering Department, Kazan Federal University, Kazan, Russia.

41. Seminar Speaker, 2015-12-04, Hydrocarbon Extraction from Unconventional Reservoirs, Centro de Investigación en Química Aplicada (CIQA), in Saltillo Coahuila, México, Role.
42. Panelist, 2015-10-28, Faculty Insight Luncheon for WE LEAD, Women in Engineering (WE), Texas A&M University, College Station, TX.
43. Panelist, 2015-09-22/23, Lifting Recovery to the Next Level, In-situ electrical heating stimulation for heavy oil recovery, SPE Heavy Oil Workshop in Budapest, Hungary.
44. Invited Speaker, 2015-09-03, Solvent-Steam Processes for Heavy Oil and bitumen Extraction, International Science and Practice Conference "Specific of Survey and Exploration of Alternative Hydrocarbon Fields", Kazan, Republic of Tatarstan, Russia.
45. Panelist, 2015-08-24, New Faculty Orientation, The Office of Dean of Faculties, Texas A&M University, College Station, TX.
46. Graduate Seminar Speaker, 2014-10-28, Advanced Recovery Techniques for Unconventional Oil Resources, Country Process Engineering Department, Memorial University of Newfoundland and Labrador, Canada.
47. Undergraduate Seminar Speaker, 2014-10-27, Reservoir Fluids-Dry Gases, Process Engineering Department, Memorial University of Newfoundland and Labrador, Canada.
48. Seminar Speaker, 2013-03-27, Hydrogen Sulfide problem during steam injection processes, Ecopetrol, Bogota, Colombia.
49. Seminar Speaker, 2013-03-15, Oil Shale extraction with RF (Radio Frequency) heating, CPI-Communications & Power Industries Palo Alto, CA, USA.
50. Seminar Speaker, 2013-03-15, Oil Shale extraction with RF (Radio Frequency) heating, SLAC-Stanford National Accelerator Laboratory, Stanford, CA, USA.
51. Seminar Speaker, 2011-02-15, Complexity behind field-scale modeling of in-situ combustion, Schlumberger, Abingdon, UK.

RESEARCH

1. Grants (\$ 4,000,000 Carrier Total).

- A. Career Total funding: \$6,848,157;
- B. Hascakir's Contribution: \$3,943,803;
- C. Pending: \$1,745,683

2. Publications

Authorship: The first author is the most significant contributor, and the last author is the principal investigator.

- An asterisk (*) indicates MS, MEng, or PhD level students.
- Two asterisks (**) indicate undergraduate level students.
- A dagger (†) indicates faculty collaborators.
- A double dagger (‡) indicates industry collaborators.

SPE: Society of Petroleum Engineers,

ACS: American Chemical Society,

ATCE: Annual Technical Conference and Exhibition,

AIChE: American Institute of Chemical Engineers,

HOLA: Heavy Oil Latin America

A. Patents (patents.justia.com/inventor/berna-hascakir)

1. Barooah, A.*, Khan, M. S.*, Rahman, A.†, Hassan, I.†, Hassan, R.†, Maheshwari, P.†, **Hascakir, B.**, Pressure gradient model for Optimizing Hole Cleaning Efficiency in Deviated and Horizontal Wells, *under Texas A&M Technology Commercialization Evaluation - Pending*, Filed in Summer 2021.
2. **Hascakir, B.**, Punase, A.*, Method and system for stability determination of asphaltenes utilizing dielectric constant measurements, *US20190113473A1, US [licensed by Clariant Corporation in November 2017](#)*. [LINK](#)
3. **Hascakir, B.**, Punase, A.*, Method and system for stability determination of asphaltenes utilizing dielectric constant measurements, *US20180024084A1, EP, CA, US, WO, [licensed by Clariant Corporation in November 2017](#)*. This patent brought 157,000 USD revenue to the university [LINK](#)

B. Journal Articles (52 Published and 2 under review)

1. Barooah, A.*, Khan, M. S.*, Pradhan, Y., Benavides, A., Fisher, Z. **, **Hascakir, B.**, Strategic Approaches to Enhanced Oil Recovery in India: Current Practices and Future Directions, *Petroleum Science and Technology*, Under Review.
2. Karabayanova, L.*; Hajiyev, M.*; Ye, H. *; Orozco, E.*; Franks, J. ‡; Benson, T. ‡; Bauman, J.‡; Lane, C.‡; **Hascakir, B.**, Machine Learning-Enhanced In-Situ Combustion: Correcting

Carbonate-Derived CO₂ Emissions and Evaluating Mineral-Based Carbon Capture, *SPE Journal*, SPE-224322-PA.

3. Hajiyev, M. *; Karabayanova, L. *; Hernandez Madero, M. I. *; Sutherland, B. E. **; Harris, J. B. **; Qureshi, I. **, **Hascakir, B.**, 2025. Experimental Evaluation of CO₂ Sequestration Through Carbonation of Magnesium- and Calcium-Rich Minerals, *SPE Journal*, 30 (12): 7910-7920, SPE-220815-PA. [LINK](#)
4. **Hascakir, B.**, Editorial: Accelerating the Energy Transition with Carbon Capture, Utilization, and Interdisciplinary Innovation, *Petroleum Science and Technology*, <https://doi.org/10.1080/10916466.2024.2440226>
5. Ren, B., **Hascakir, B.**, Delshad, M., Duncan, I.J., Sepehrnoori, K., 2025. Editorial: Carbon Capture and Storage at Scale, Special Issue CCS at Scale, Volume 380, 133512, *Fuel*, [LINK](#)
6. Mathews, T.A.* , Azzu, P. * , **Hascakir, B.**, 2024. Unlocking Sustainable Solutions: Exploring Terpene-Based Green Solvents for Enhanced Heavy Oil Recovery, *Special Issue: Celebrating Women in Energy Research, Energy and Fuels*, Vol 38/Issue 24. [LINK](#)
7. Mathews, T.A.* , Kaishentayev, D. * , Augsburg, N. ‡ , Lefers, R. ‡ , **Hascakir, B.**, 2024. Exploring Innovative Applications of Evaporative Cooling for High TDS-Produced Water Treatment, *SPE Journal*, SPE-214932-PA. [LINK](#)
8. Punase, A.* , **Hascakir, B.**, 2023. Role Of Reservoir Brine and Rock in Modulating Asphaltene Stability: Insights from Experimental Analysis, *SPE Journal*, SPE-217448-PA. [LINK](#)
9. Morte, M.K.* , **Hascakir, B.**, 2023. Characterizing the Sensitivity of Dielectric Response in Reservoirs with Varying Lithology and Fluid Saturation, *SPE Journal*, 1-13, SPE-217447-PA. [LINK](#)
10. Punase, A.* , Prakosa, A.* , **Hascakir, B.**, 2023. Effect of Clay Minerals on Asphaltene Deposition in Reservoir Rock: Insights from Experimental Investigations, *Fuel*, 351, 128835. [LINK](#)
11. Pope, C. ** , Ismail, N.* , **Hascakir, B.**, The Role of Reservoir Fluids and Reservoir Rock Mineralogy on In-Situ Combustion Kinetics, *Geoenergy Science and Engineering*, Volume 224, 211516. [LINK](#).
12. Barooah, A.* , Khan, M. S.* , Rahman, A.† , Hassan, I.† , Hassan, R.† , Maheshwari, P.† , **Hascakir, B.**, Development of Pressure gradient correlation for slurry flow using Dimensional Analysis, *Journal of Natural Gas Science and Engineering*, Volume 104, August 2022, 104660. [LINK](#).

13. Barooah, A.* , Khan, M. S.* , Rahman, A.† , Hassan, I.† , Hassan, R.† , Maheshwari, P.† , **Hascakir, B.**, Investigation of cutting transport in horizontal/deviated annulus using visualization and pressure drop techniques for two-phase slurry flow, *Journal of Natural Gas Science and Engineering*, Volume 100, April 2022, 104460. [LINK](#)
14. Demir, A. B. * , Bilgesu, I. † , **Hascakir, B.**, Interaction of n-Pentane and n-Heptane Insoluble Asphaltenes in Brine with Clay and Sand, *Journal of Petroleum Science and Engineering*, Volume 209, February 2022, 109870. [LINK](#)
15. Seng, L.Y.** , **Hascakir, B.**, Role of Intermolecular Forces on Surfactant-steam Performance into Heavy Oil Reservoirs, *SPE Journal*, 1-6, SPE-201513-PA. [LINK](#)
16. Kar, T.* , **Hascakir, B.**, Effect of Clay Type on Emulsion Formation in Steam and Solvent-Steam Flooding, *SPE Journal*, SPE 205363-PA. [LINK](#)
17. Zhang, L.* , **Hascakir, B.**, A Review of Issues, Characteristics, and Management for Wastewater due to Hydraulic Fracturing in the U.S., *Journal of Petroleum Science and Engineering*, Volume 202, July 2021, 108536. [LINK](#)
18. Kar, T.* , **Hascakir, B.**, Effect of Solvent Type on Emulsion Formation in Steam and Solvent-Steam Flooding Processes for Heavy Oil Recovery, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2021, Volume 611, Pages 125783. [LINK](#)
19. Seng, L.Y.** , Al-Shaikh, M.* , **Hascakir, B.**, Intermolecular Interaction between Heavy Crude Oils and Surfactants during Surfactant-Steam Flooding Process, *ACS Omega*, 2020, 5, 27383-27392. [LINK](#)
20. Bealessio, B.A.* , Blázquez Alonso, N. A.* , Mendes, N. J.* , Sande, A. V.* , **Hascakir, B.**, A Review of Enhanced Oil Recovery (EOR) Methods Applied in Kazakhstan, *Petroleum*, Volume 7, Issue 1, Pages 1-9. [LINK](#)
21. Ismail, N.* , **Hascakir, B.**, Impact of Asphaltenes and Clay Interaction on In-Situ Combustion Performance, *Fuel*, 2020, Volume 268-15, 117358. [LINK](#)
22. Zhang, L.* , Tice, M. † , **Hascakir, B.**, A Laboratory Study of the Impact of Re-Injecting Flowback Fluids on Formation Damage in the Marcellus Shale, *SPE Journal*, 2020, Volume 25-02, SPE-195336-PA. [LINK](#)
23. Morte, M.* , **Hascakir, B.**, Characterization of complex permittivity for consolidated core samples by utilization of mixing rules, *Journal of Petroleum Science and Engineering*, 2019, Volume 181, 106-178. [LINK](#)

24. Morte, M.* , Dean, J.†, Kitajima, H.†, **Hascakir, B.**, Increasing the Penetration Depth of Microwave Radiation Using Acoustic Stress to Trigger Piezoelectricity, *Energy & Fuels*, 2019,33, 6327-6334. [LINK](#)
25. **Hascakir, B.**, Editorial: Introduction to Thermal Enhanced Oil Recovery (EOR) special issue, *Journal of Petroleum Science and Engineering*, SI:Thermal EOR, 171 (2018) 1292-1293. [LINK](#)
26. Banerjee, S.* , **Hascakir, B.**, Flow Control Devices in SAGD Completion Design: Enhanced Heavy Oil/ Bitumen Recovery through Improved Thermal Efficiency, *Journal of Petroleum Science and Engineering*, SI:Thermal EOR, 2018, Volume 169, 297-308. [LINK](#)
27. Ismail, N.* , Seber, E.** , **Hascakir, B.**, Water and Aromatics Fraction Interaction at Elevated Temperature and Their Impact on Reaction Kinetics of In-situ Combustion, *Journal of Petroleum Science and Engineering*, SI:Thermal EOR, Volume 169, October 2018, Pages 24-32. [LINK](#)
28. Prakoso, A.* , Punase, A.* , Rogel, E.†, Ovalles, C.†, **Hascakir, B.**, Effect of Asphaltene Characteristics on Its Solubility and Overall Stability, *Energy & Fuels*, 2018, 32 (6), 6482-6487. [LINK](#)
29. Kartal O. E.†, Akin S.†, **Hascakir, B.**, Karaca H.†, Liquefaction of Nigde-Ulukisla Oil Shale: The Effects of Process Parameters on the Conversion of Liquefaction Products, *Oil Shale*, 34-4 (2017), 336-353. [LINK](#)
30. Banerjee, S.* , **Hascakir, B.**, Design of Flow Control Devices in Steam Assisted Gravity Drainage (SAGD) Completion, *Journal of Petroleum Exploration and Production Technology*, 2018, 8, 785-797. [LINK](#)
31. Banerjee, S.* , Abdulsattar, Z.R.* , Agim, K.* , Lane, R.H.† , **Hascakir, B.**, Adsorption Mechanism of the Water-Based Fracturing Fluids on Shale Surface, *Petroleum*, 3 (2017) 384-390. [LINK](#)
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67. **Hascakir, B.**, Carbon dioxide storage in heavy oil reservoirs, *13th International Symposium on Heavy Oil Upgrading, Production & Characterization, ACS 253rd National Meeting*, April 2-6, 2017, San Francisco, California, USA, PAPER ID: 2657158. [LINK](#)
68. Kar, T.* , Ovalles, C.†, Benson, I.P.†, **Hascakir, B.**, Propane-Steam Assisted Gravity Drainage (propane-SAGD) as a follow-up process to SAGD, *13th International Symposium on Heavy Oil Upgrading, Production & Characterization, ACS 253rd National Meeting*, April 2-6, 2017, San Francisco, California, USA, PAPER ID: 2657699. [LINK](#)
69. **Hascakir, B.**, Reservoir rock-asphaltenes interaction impacts asphaltenes stability, *13th International Symposium on Heavy Oil Upgrading, Production & Characterization, ACS 253rd National Meeting*, April 2-6, 2017, San Francisco, California, USA, PAPER ID: 2657777. [LINK](#)
70. Pettengell, K.* , **Hascakir, B.**, Horizontal Water Injection: From Initiation to Evaluation, *New Zealand Petroleum Conference 2017*, 21-23 March, New Plymouth, NEW ZEALAND. [LINK](#)
71. Kar, T. * , **Hascakir, B.**, The Interaction of Asphaltenes with Solvents, Water, and Clays during Bitumen Extraction through Solvent-Steam Injection, *SPE International Heavy Oil Conference & Exhibition*, 6-8 December 2016, Mangaf, Kuwait, SPE-184081-MS. [LINK](#)
72. Ali, M. * , Banerjee, S.* , **Hascakir, B.**, The Environmental Aspect of Produced Water Management for the Oil Field Waters Originated Thermal EOR, *SPE International Heavy Oil Conference & Exhibition*, 6-8 December 2016, Mangaf, Kuwait, SPE-184139-MS. [LINK](#)
73. Prakoso, A.A.* , Punase, A.* , **Hascakir, B.**, Pore Scale Representation of Near Wellbore Damage due to Asphaltene Deposition: Effect of Sand Grain Size and the Amount of Clay in Reservoir Rock, *SPE International Heavy Oil Conference & Exhibition*, 6-8 December 2016, Mangaf, Kuwait, SPE-184099-MS. [LINK](#)
74. Banerjee, S.* , **Hascakir, B.**, Field Use of Tubing-Deployed Flow Control Devices to Improve the Economics and Environmental Costs of Albertan SAGD Operations, *The Seventh Annual Berg-Hughes Symposium*, 10-11 October 2016, Texas A&M University, College Station, Texas, USA (POSTER)
75. **Hascakir, B.**, In-Situ Combustion for Fracturing, *Thermal EOR International Workshop, "Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications"*, 28 June-1 July 2016, Kazan, Russia. [LINK](#)
76. Stape, P.* , **Hascakir, B.**, Wettability Alteration during Solvent Assisted-Steam Flooding with Asphaltenes Insoluble Solvents, *SPE Latin America and Caribbean Heavy and Extra Heavy Oil Conference*, 19-20 October 2016, Lima, PERU, SPE-181148-MS. [LINK](#)

77. Demir, A.B. *, Bilgesu, H.†, **Hascakir, B.**, The Effect of Brine Concentration on Asphaltene Stability, *SPE Annual Technical Conference and Exhibition (ATCE)*, 26-28 September 2016 in Dubai, UAE, SPE-181706-MS. [LINK](#)
78. **Hascakir, B.**, The Impact of Asphaltenes on Thermal Enhanced Oil Recovery Performance, *Thermal Methods for Enhanced Oil Recovery: Laboratory Testing Simulation and Oilfields Applications*, 28 June- 1 July 2016, Kazan-Republic of Tataristan, RUSSIA. **Invited**
79. Ismail, N.B.* , Klock, K. **, **Hascakir, B.**, In-situ Combustion Experiences in Heavy Oil Carbonates, *SPE Canada Heavy Oil Technical Conference*, 7-9 June 2016, Calgary, Alberta, Canada, SPE-180724-MS. [LINK](#)
80. Coelho, R.S.C.* , Ovalles, C.†, Benson, I.P.†, **Hascakir, B.**, Clay-Asphaltene Interactions during Hybrid Solvent-Steam Injection Into Bitumen Reservoirs, *SPE Canada Heavy Oil Technical Conference*, 7-9 June 2016, Calgary, Alberta, Canada, SPE-180723-MS. [LINK](#)
81. **Hascakir, B.**, Finding the Right Recipe to Effective Extraction of High Viscosity and Low API Gravity Hydrocarbon Resources, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180424-MS. [LINK](#)
82. Demir, A. B. *, Bilgesu, H.I. †, **Hascakir, B.**, The Effect of Clay and Salinity on Asphaltene Stability, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180425-MS. [LINK](#)
83. Punase, A.* , Prakoso, A.A.* , **Hascakir, B.**, The Polarity of Crude Oil Fractions Affects the Asphaltenes Stability, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180423-MS. [LINK](#)
84. Prakoso, A.A.* , Klock, K.** , Punase, A.* , Rogel, E.†, Ovalles, C.†, **Hascakir, B.**, Determination of the Stability of Asphaltenes through Physicochemical Characterization of Asphaltenes, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180422-MS. [LINK](#)
85. Punase, A.* , **Hascakir, B.**, The Role of Deasphalted Oil in the Stability of Asphaltenes, *2016 AIChE Spring Meeting & 12th Global Congress on Process Safety, 4th International Conference on Upstream Engineering and Flow Assurance*, 10-14 April 2016. Houston, Texas, USA.
86. Stape, P.* , Ovalles, C.†, **Hascakir, B.**, Pore Scale Displacement Mechanism of Bitumen Extraction with High Molecular Weight Hydrocarbon Solvents, *20th SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179608-MS. [LINK](#)
87. Morte, M.* , **Hascakir, B.**, Relative Permeability Estimation in Steam Assisted Gravity Drainage (SAGD) Using a Fractional Flow Model, *20th SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179532-MS. [LINK](#)

88. Kar, T.* , **Hascakir, B.**, Effective Extraction of Green River Oil Shale via Combustion, *20th SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179610-MS. [LINK](#)
89. Banerjee, S.* , **Hascakir, B.**, Management of Steam Flashing in SAGD Completion Designs via the Implementation of Flow Control Devices, *SPE Thermal Well Integrity and Design Symposium*, 23-25 November 2015, Banff, Alberta, Canada, SPE-178459-MS. [LINK](#)
90. Coelho, R.S.C.* , **Hascakir, B.**, The Pore Scale Description of Carbon Dioxide Storage into High Asphaltene Content Reservoirs, *Carbon Management Technology Conference*, Sugar Land, Texas, USA, 17-19 November 2015, CMTC 439523. [LINK](#)
91. Coelho, R.S.C.* , Barrufet, M.† , **Hascakir, B.**, Effect of Impurities in Carbon Dioxide Stream on Phase Behavior for Geological Storage of Carbon Dioxide in Low API Gravity Oil Reservoirs, *Carbon Management Technology Conference*, Sugar Land, Texas, USA, 17-19 November 2015, CMTC 439524. [LINK](#)
92. Aleksandrov, D.* , Kudryavtsev, P.* , **Hascakir, B.**, Impact of Fracture Orientation on In-Situ Combustion Performance, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177063-MS. [LINK](#)
93. Prakoso, A.** , Punase, A.* , **Hascakir, B.**, A Mechanistic Understanding of Asphaltene Precipitation from Varying Saturate Concentration Perspective, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177280-MS. [LINK](#)
94. Kozlowski M.L.** , Punase, A.* , Nasr-El-Din, H.† , **Hascakir, B.**, The Catalytic Effect of Clay on In-Situ Combustion Performance, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177166-MS. [LINK](#)
95. Klock, K.** , **Hascakir, B.**, Simplified Reaction Kinetics Model for In-Situ Combustion, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177134-MS. [LINK](#)
96. Kar, T.* , Punase, A.* , **Hascakir, B.**, Investigation of Chemical Physical Properties of Oil Shales with Spectral and Thermal Methods, *The Sixth Annual Berg-Hughes Symposium*, 16 October 2015, Texas A&M University, College Station, Texas, USA (POSTER).
97. Kar, T.* , Kozlowski M.L.** , **Hascakir, B.**, Characterization of Kerogen for Green River Oil Shale, *The Sixth Annual Berg-Hughes Symposium*, 16 October 2015, Texas A&M University, College Station, Texas, USA. (POSTER).

98. **Hascakir, B.**, Real-Time Tracking of Fracture Propagation during Air Injection as an Alternative Fracturing Fluid, *SPE Eastern Regional Meeting*, 13-15 October 2015, Morgantown, West Virginia, USA, SPE-177303-MS. [LINK](#)
99. Ali, M.* , **Hascakir, B.**, Water-Rock Interaction for Eagle Ford, Marcellus, Green River, and Barnett Shale Samples, *SPE Eastern Regional Meeting*, 13-15 October 2015, Morgantown, West Virginia, USA, SPE-177304-MS. [LINK](#)
100. Kozlowski, M.** , Kar, T. * , **Hascakir, B.**, Ex-situ Extraction of Green River Oil Shale by Combustion, *Western States Section of the Combustion Institute Fall Meeting*, Provo, Utah, USA. October 5-6, 2015. 134IE-0051.
101. Klock, K.** , Prakoso, A.* , Punase, A.* , **Hascakir, B.**, The combustion behavior of various hydrocarbons with complex molecular structures, *Western States Section of the Combustion Institute Fall Meeting*, Provo, Utah, USA. October 5-6, 2015. 134CK-0042.
102. **Hascakir, B.**, Description of In-situ Oil Upgrading Mechanism for In-situ Combustion Based on a Reductionist Chemical Model, *SPE Annual Technical Conference and Exhibition (ATCE)*, 28-30 September 2015 in Houston, Texas, USA, SPE 175086-MS. DR: 47. [LINK](#)
103. **Hascakir, B.**, Evaluation of Thermal Enhanced Oil Recovery Methods, *SPE Heavy Oil Workshop: Lifting Recovery to the Next Level*, 22-23 September 2015 in Budapest, Hungary. [LINK](#) **Invited**
104. Stape, P.* , **Hascakir, B.**, The Performance Evaluation of Solvent-Steam Processes for Bitumen Extraction, *International Science and Practice Conference "Specific of Survey and Exploration of Alternative Hydrocarbon Fields"*, 2-3 September, 2015, Kazan, Republic of Tatarstan, Russia. **Invited**
105. Kar, T.* , Yeoh, J.** , Ovalles, C.† , Rogel, E.† , Benson, I.P.† , **Hascakir, B.**, The Impact of Asphaltene Precipitation and Clay Migration on Wettability Alteration for Steam Assisted Gravity Drainage (SAGD) and Expanding Solvent SAGD (ES-SAGD), *2015 SPE Heavy Oil Conference*, 9-11 June, 2015, Calgary, Alberta, Canada, SPE-174439-MS. [LINK](#)
106. Guven, S.* , Akin, S. † , **Hascakir, B.**, Spectral and Thermal Analysis Explains the Mechanisms of Oil Shale Recovery with Microwave Heating, *20th International Petroleum and Natural Gas Congress and Exhibition of Turkey*, 27-29 May 2015, Ankara, Turkey. [LINK](#)
107. **Hascakir, B.**, Soot Particle and Ash Analysis for Combustion, Combustion Institute, *9th U.S. National Combustion Meeting*, May 17-20 2015, Cincinnati, Ohio, USA, 114DI-0066.
108. Unal, Y.* , Kar, T. * , Mukhametshina, A.* , **Hascakir B.**, The Impact of Clay Type on the Asphaltene Deposition during Bitumen Extraction with Steam Assisted Gravity Drainage,

International Symposium on Oil Field Chemistry, 13-15 April 2015, The Woodlands, Texas, USA, SPE-173795-MS. [LINK](#)

109. Abdulsattar, Z.R.* , Agim, K.* , Lane, R.H.†, **Hascakir, B.**, Physicochemical Interactions of Shale with Injected Water-Based Fluids, *International Symposium on Oil Field Chemistry*, 13-15 April 2015, The Woodlands, Texas, USA, SPE-173727-MS. [LINK](#)
110. Ali, M.* , **Hascakir, B.**, A Critical Review of Emerging Challenges for the Oil Field Waters in United States, *SPE E&P Health, Safety, Security, and Environmental Conference-Americas*, 16-18 March 2015, Denver, Colorado, USA, SPE 173529-MS. [LINK](#)
111. Guven, S.* , Akin S.†, **Hascakir, B.**, Comprehensive Spectral and Thermal Characterization of Oil Shales, *SPE Middle East Unconventional Resources Conference and Exhibition*, 26-28 January 2015, Muscat, Oman, SPE-172952-MS. [LINK](#)
112. Kar, T.* , Williamson, M.** , **Hascakir, B.**, The Role of Asphaltenes in Emulsions Formation for Steam Assisted Gravity Drainage (SAGD) and Expanding Solvent-SAGD (ES-SAGD), *2014 SPE Heavy and Extra Heavy Oil Conference-Latin America*, 24-26 September 2014, Medellin, Colombia, SPE-171076-MS. [LINK](#)
113. **Hascakir, B.**, Kovscek A.†, Analysis of In-Situ Combustion Performance in Heterogeneous Media, *2014 SPE Heavy Oil Conference*, 10-12 June, 2014, Calgary, Alberta, Canada, SPE 170008-MS. [LINK](#)
114. Mukhametshina, A.* , **Hascakir, B.**, Bitumen extraction by expanding solvent-steam assisted gravity drainage (ES-SAGD) with asphaltene solvents and non-solvents, *2014 SPE Heavy Oil Conference*, 10-12 June, 2014, Calgary, Alberta, Canada, SPE 170013-MS. [LINK](#)
115. Morrow, A.** , Mukhametshina, A.* , Aleksandrov, D.* , **Hascakir, B.**, Environmental Impact of Bitumen Extraction with Thermal Recovery, *2014 SPE Heavy Oil Conference*, 10-12 June, 2014, Calgary, Alberta, Canada, SPE 170066-MS. [LINK](#)
116. Mukhametshina, A.* , Morrow, A.** , Aleksandrov, D.* , **Hascakir, B.**, Evaluation of Four Thermal Recovery Methods for Bitumen Extraction, *2014 SPE Western North America and Rocky Mountain Joint Regional Meeting*, 16-18 April 2014 Denver, CO, USA, SPE 169543-MS. [LINK](#)
117. Kudryavtsev, P.* , **Hascakir, B.**, Towards Dynamic Control of In-situ Combustion: Effect of Initial Oil and Water Saturations, *2014 SPE Western North America and Rocky Mountain Joint Regional Meeting*, 16-18 April 2014 Denver, Colorado USA, SPE 169542-MS. [LINK](#)

118. **Hascakir, B.**, Ross, C., Castanier, L. Kovscek, A.[†], Fuel Formation During In-Situ Combustion of Heavy Oil, *SPE Annual Technical Conference and Exhibition (ATCE)*, 30 October-2 November 2011 in Denver, Colorado, USA, SPE-146867-PP. [LINK](#)
119. Glatz, G., **Hascakir, B.**, Clemens, T.[‡], Castanier, L., Kovscek, A.[†], Kinetic Cell and Combustion Tube Results for a Central European Crude, *SPE Annual Technical Conference and Exhibition (ATCE)*, 30 October-2 November 2011 in Denver, Colorado, USA, SPE-146089-PP. [LINK](#)
120. **Hascakir, B.**, Babadagli, T.[†], Akin, S.[†], Heavy Oil Recovery from Oil Shales by Electrical Heating, *SPE History Matching: Field Experiences and Lessons Learned*, Cartagena, Colombia, 29-31 August 2011. **Invited**
121. **Hascakir, B.**, Castanier, L., Kovscek, A.[†], In-Situ Combustion Dynamics Visualized with X-Ray Computed Tomography, *SPE Annual Technical Conference and Exhibition (ATCE)*, Florence, Italy, 20-22 September 2010, SPE-135186-PP. [LINK](#)
122. Karaca, H.[†], Kartal, O. E.[†], Akin, S.[†], **Hascakir, B.**, Characterization of Solid and Liquid Hydrocarbons Obtained from Liquefaction of Nigde-Ulukisla Oil Shales, *The 9th National Chemistry Congress*, 22-25 June, 2015, Ankara/Turkey. [LINK](#)
123. **Hascakir, B.**, Kovscek, A. [†], Reservoir Simulation of Cyclic Steam Injection Including the Effects of Temperature Induced Wettability Alteration, *2010 SPE Western Regional Meeting*, Anaheim, California, USA, 27-29 May 2010, SPE 132608. [LINK](#)
124. **Hascakir, B.**, Acar, C., Demiral, B. [†], Akin, S. [†], Microwave Assisted Gravity Drainage of Heavy Oils, *International Petroleum Technology Conference*, Kuala Lumpur, Malaysia, 3–5 December 2008, IPTC-12536-MS. [LINK](#)
125. **Hascakir, B.**, Babadagli, T.[†], Akin, S.[†], Experimental and Numerical Modeling of Heavy-Oil Recovery by Electrical Heating, *SPE International Thermal Operations and Heavy Oil Symposium*, Calgary, Alberta, CANADA, 21-23 October 2008, SPE-117669. [LINK](#)
126. Karaca, H.[†], Kartal, O. E.[†], Akin, S.[†], **Hascakir, B.**, Liquefaction of Nigde-Ulukisla Oil Shales and the Waste Paper, *The 22nd National Chemistry Congress*, 6-10 October, 2015, Famagusta/Cyprus.
127. Acar, C., **Hascakir, B.**, Demiral, B.[†], Akin, S.[†], Karaca, H.[†], Kartal, O.E.[†], Microwave Heating of Heavy Oil Reservoirs: Effect of Wettability, *150 Years of Petroleum Industry: Tradition & Challenges*, Bucharest, ROMANIA, October 2007.

128. **Hascakir, B.**, Acar, C., Demiral, B[†], Akin, S.[†], Karaca, H.[†], Kartal, O.E.[†], Heavy Oil Recovery from Thin Pay Zones by Microwave Heating, *International Petroleum and Natural Gas Congress & Exhibition of Turkey*, Ankara, TURKEY, May 2007 (Turkish).
129. **Hascakir, B.**, Akin S.[†], Effect of Metallic Additives on Upgrading Heavy Oil with Microwave Heating, *First World Heavy Oil Conference (WHOC)*, Beijing, CHINA, November 2006.
130. **Hascakir, B.**, Dolgen, D.[†], Investigation of Treatment Performance of Kaolinite onto Different Wastewater Types and Treatment Methods, *Fourth Mediterranean Clay Meeting*, Ankara, TURKEY, September 2006.
131. **Hascakir, B.**, Dolgen, D.[†], Evaluation of Treatment Efficiencies of Kaolinite for Various Wastewater Samples, *Bridging Clays*, Ile d'Oléron, FRANCE, June 2006.
132. **Hascakir, B.**, Hydraulic Potential of Turkey, *3rd Aegean Energy Symposium*, Mugla, TURKEY, May 2006 (Turkish).
133. **Hascakir, B.**, Dolgen, D.[†], Chemical Treatment of Wastewaters Originated from Printing Processes of Corrugated Box Industries, *6th National Environmental Engineering Conference*, Istanbul, TURKEY, November 2005 (Turkish).
134. **Hascakir, B.**, Dolgen, D.[†], Utilization of Clay Minerals in Wastewater Treatment: Organic Matter Removal with Kaolin (China Clay), *12th National Clay Conference*, Van, September 2005 (Turkish).
135. **Hascakir, B.**, Demiral, B[†], Akin, S.[†], Experimental and Numerical Analysis of Oil Shale Production Using Retort Technique, *15th International Petroleum and Natural Gas Congress and Exhibition of Turkey*, Ankara, TURKEY, May 2005.
136. Dolgen, D.[†], **Hascakir, B.**, Akkus, M., Application of Clay Minerals in the Environmental Engineering: Experiments with Domestic Wastewater, *Ecology Congress*, Bolu, TURKEY, October 2004 (Turkish).
137. **Hascakir, B.**, Dolgen, D.[†], Akkus, M., Treatability of Corrugated Paperboard Industry Wastewater by Physicochemical Treatment Methods, *9th Industrial Contamination Congress*, Istanbul, TURKEY, June 2004 (Turkish).

SERVICE (56 duties, 23 are current and 33 are completed)

A. Current Service (16 of them international)

I. International Level

1. Editor-in-chief, 2022-Present. Petroleum Science and Technology, Taylor and Francis Group, LLC.
2. Editor, 2023-Present. Fuel, Elsevier.
3. Editorial Board Member, Scientific Reports, 2025-Present. Springer Nature.
4. Guest Editor, Special Issue, Advanced Technologies and Strategies in Subsurface Storage, 2025-2026. Fuel, Elsevier.
5. Editorial Advisory Board, 2023- Present. Taylor and Francis Group, LLC, [LINK](#)
6. Topical Advisory Panel, 2023-Present. Energies, Section H1: Petroleum Engineering Section, MDPI Journals.
7. Chair, SPE Education and Accreditation Committee (EAC), 2026-2028. Society of Petroleum Engineers (SPE).
8. Chair, SPE Carll, Lucas & Uren Award Subcommittee, 2026. Society of Petroleum Engineers (SPE).
9. Committee Member, SPE Awards & Recognition Committee, 2026. Society of Petroleum Engineers (SPE).
10. Committee Member, SPE Education and Accreditation Committee (EAC), 2025-2028. Society of Petroleum Engineers (SPE).
11. Judge, SPE Reservoir Description & Dynamics Award Subcommittee, 2024-2027. Society of Petroleum Engineers (SPE).
12. Judge, SPE Giovanni Paccaloni Young Professional Service Award Subcommittee, 2024-2027. Society of Petroleum Engineers (SPE).
13. Judge, SPE Carll, Lucas & Uren Award Subcommittee, 2023-2026. Society of Petroleum Engineers (SPE).
14. Judge, SPE Student Chapter Award Judging, 2025-Present. Society of Petroleum Engineers (SPE).
15. Committee Member, SPE Permian Basin Energy Conference, 2026. Society of Petroleum Engineers (SPE).

16. Committee Member, SPE Annual Technical Conference and Exhibition (ATCE), 2023-Present. Society of Petroleum Engineers (SPE).

II. National Level

17. Program Evaluator, 2018-Present. Engineering Accreditation Commission (EAC), ABET (Accreditation Board for Engineering and Technology, Inc.) (**2 duties in 2021 and in 2023**).

III. University Level

18. Preliminary Screening Committee, 2024-2026. The Committee on the Academic Freedom, Responsibility and Tenure (CAFRT), Texas A&M University, College Station, TX.

19. The Undergraduate Academic Appeals Panel (UAAP), 2022-Present. Texas A&M University, College Station, TX.

20. The Committee on the Honor Council, 2021-Present. Texas A&M University, College Station, TX.

IV. College Level

21. Ocean Energy Safety Institute (OESI) 2.0, 2021-2026, Gain to Access Funding **in the amount of 51,697,972 USD-Awarded**, College of Engineering, College Station, TX.

22. ADVANCE Science Scholars, Mentoring Junior Female Faculty in College of Science, Texas A&M University, College Station, TX.

V. Departmental Level

23. ABET (Accreditation Board for Engineering and Technology, Inc.), 2019-Present. Petroleum Engineering Department, Texas A&M University, College Station, TX.

B. Completed Service (18 of them international)

I. International Level

24. Principal Associate Editor, 2021-2023. Fuel, Elsevier.

25. Associate Editor, 2014-2022. Journal of Petroleum Science and Engineering. Elsevier.

26. Associate Editor, 2019-2020. Energy Reports, Elsevier.

27. Guest Editor-in-Chief, 2021-2023. Special Issue, Carbon Capture, Utilization, and Storage (CCUS) at Scale, Fuel, Elsevier.

28. Managing Guest Editor-in-Chief, 2017, 2018, and 2019. The Thermal EOR Special Issue I, II, III (three special issues), Journal of Petroleum Science and Engineering, Elsevier.
29. Chair, 2022-2024. SPE International Cedric K Ferguson Subcommittee, Society of Petroleum Engineers (SPE).
30. Committee Member, 2016-2019. SPE Faculty Innovative Teaching Award Committee, Society of Petroleum Engineers (SPE).
31. Committee Member, 2026. SPE Awards & Recognition Committee, Society of Petroleum Engineers (SPE).
32. Committee Member, SPE International Cedric K Ferguson Subcommittee, 2021-2024. Society of Petroleum Engineers (SPE).
33. Committee Member, 2018-2023. SPE/IADC Middle East Drilling Technology Conference and Exhibition (MEDT), for three conferences, Society of Petroleum Engineers (SPE).
34. Committee Member, 2018-2022. SPE Annual Technical Conference and Exhibition (ATCE), Society of Petroleum Engineers (SPE).
35. Committee Member, 2018. SPE/EAGE Tar Mats & Heavy Oil Workshop, Society of Petroleum Engineers (SPE).
36. Committee Member, 2016-2020. SPE Heavy Oil Technical Conference, Society of Petroleum Engineers (SPE).
37. Committee Member, 2016-2017. SPE Latin America and Caribbean Heavy and Extra-Heavy Oil Conference, Society of Petroleum Engineers (SPE).
38. Committee Member, 2019-2022. Unconventional Resources Technology Conference, Society of Petroleum Engineers (SPE).
39. Committee Member, 2015-2012. The Thermal EOR International Workshop (5 different workshops; Russia, Azerbaijan, China, Colombia, and Turkey), "Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications".
40. Mentoring, 2013-2024. Society of Petroleum Engineers (SPE) Mentoring Program, Society of Petroleum Engineers (SPE).
41. Mentoring, Summer 2012. WITSON to encourage women's education in science and engineering, WITSON.

II. National Level

42. Mentoring, 2015-2016. Mentoring High School Teachers for grant proposal writing on combustion to encourage high school students' involvement in research and for a college degree, Combustion Institute, The Central States Section.

III. University Level

43. Advance Administrative Fellow, 2021-2022. College of Engineering, Texas A&M University, College Station, TX.
44. Committee Member, 2021-2024. The Committee on Academic Freedom, Responsibility and Tenure (CAFRT). Texas A&M University, College Station, TX.
45. Committee Member, The 2023 Goldwater selection committee, November 2022. Texas A&M University, College Station, TX.
46. Committee Member, 2020. Hybrid Teaching & Learning Design Team, Center for Teaching Excellence, Texas A&M University, College Station, TX.
47. Mentoring, 2018. Women Faculty Network (WFN) Faculty Mentoring Program, Texas A&M University, College Station, TX.
48. Mentoring, 2015-2016. The Academy of Future Faculty (AFF), Texas A&M University, College Station, TX.

IV. College Level

49. Committee Member, 2020. Multidisciplinary Engineering (MTDE) Faculty Steering Committee, College of Engineering, Texas A&M University, College Station, TX.
50. Mentoring, 2015-2020. Women in Engineering (WE), College of Engineering, College Station, TX.
51. Coordinator, 2016-2017. Honors Program, College of Engineering, Texas A&M University, College Station, TX.
52. Vice Chair, 2018-2021. Engineering Faculty Advisory Council (EFAC), College of Engineering, Texas A&M University, College Station, TX.
53. Chair, 2015-2017. Junior Engineering Faculty Advisory Council (JEFAC), College of Engineering, Texas A&M University, College Station, TX.

V. Departmental Level

54. Committee Member, 2019-2024. Graduate Studies Committee, Petroleum Engineering Department, Texas A&M University, College Station, TX.
55. Committee Member, 2016-2020. Undergraduate Curriculum Committee, Petroleum Engineering Department, Texas A&M University, College Station, TX.

56. Committee Member, 2014-2016. Undergraduate Scholarship Committee, Petroleum Engineering Department, Texas A&M University, College Station, TX.

OTHER

Professional Development Activities (CEU stands for Continuing Education Unit) (~ 64.2 CEU in Career total)

1. Jan. 2024, Soar with Canvas, 1.5 CEU, Texas A&M University, College Station, TX.
2. Jan. 2024, Launch with Canvas, 1.5 CEU, Texas A&M University, College Station, TX.
3. Jan. 2024, Facilitating Learning: An Introduction to the 5 Families of Teaching Strategies, 1.5 CEU, Texas A&M University, College Station, TX.
4. June 2023, Dignity in Action: Classroom Culture and Aggie Core Values, 2 CEU, Texas A&M University, College Station, TX.
5. Mar. 2022, Executive Leadership Certificate (16 weeks), 6.4 CEUs, Cornell University, NY.
6. Jan. 2022, Diversity and Inclusion Certificate (8 weeks), 3.2 CEUs, Cornell University, NY.
7. Oct. 2021, Women in Leadership Certificate (10 weeks), 4.0 CEUs, Cornell University, NY.
8. Sept.2021-May 2022, Leadership Academy (2 semesters), 3.0 CEUs, Texas A&M University, College Station, TX.
9. July 13, 2022, Graduate Mentoring Academy (GMA) - Facilitator Training, 0.2 CEUs, Texas A&M University, College Station, TX.
10. June 20, 2022, Capstone: Mentoring Philosophy and Plan (after the completion of all 6 competencies), 0.2 CEUs, Texas A&M University, College Station, TX.
11. Mar.3, 2022, Competency 6: Promoting Professional Development (PPD) in Mentoring, 0.2 CEUs, Center for Teaching Excellence, Faculty and Graduate Mentoring Academy (FMA and GMA), Texas A&M University College Station, TX.
12. April 11, 2022, Competency 5: Fostering Independence in Mentoring (FI), 0.2 CEUs, Center for Teaching Excellence, Faculty and Graduate Mentoring Academy (FMA and GMA), Texas A&M University College Station, TX.
13. Oct. 6, 2021, Competency 1: Maintaining Effective Communication in Mentoring (MEC), 0.2 CEUs, Center for Teaching Excellence, Faculty and Graduate Mentoring Academy (FMA and GMA), Texas A&M University College Station, TX.
14. July 13, 2021, Competency 3: Assessing Understanding in Mentoring (AU), 0.2 CEUs, Center for Teaching Excellence, Faculty and Graduate Mentoring Academy (FMA and GMA), Texas A&M University College Station, TX.
15. July 8, 2021, Competency 4: Addressing Equity and Inclusion in Mentoring (AEI), 0.2 CEUs, Center for Teaching Excellence, Faculty and Graduate Mentoring Academy (FMA and GMA), Texas A&M University College Station, TX.
16. June 28, 2021, Competency 2: Aligning Expectations in Mentoring (AE), 0.2 CEUs, Center for Teaching Excellence, Faculty and Graduate Mentoring Academy (FMA and GMA), Texas A&M University College Station, TX.
17. May 19, 2021, ADVANCE-STRIDE (The Strategies and Tactics for Recruiting to Improve Diversity and Excellence), 0.2 CEUs, Texas A&M University College Station, TX.

18. November 12, 2019, WE: What's My Bias? Understanding the Impact of Internalized Messages, 0.2 CEUs, Women in Engineering- Fall 2019 Faculty Focus, Texas A&M University College Station, TX.
19. May1-2, 2019, Transformational Teaching and Learning Conference "Active and Inclusive Engagement", 1 CEUs, Texas A&M University College Station, TX.
20. April 18, 2019, Articulating the Value of Diversity in Our Courses and Disciplines, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
21. March 26, 2019, Visionary Women: Champions of Peace & Nonviolence, 2019 Women's Research on Women, 0.5 CEUs, Education & Human Development, Education Leadership Research Center, Texas A&M University College Station, TX.
22. March 19, 2019, Digital Playgrounds as Learning Spaces: Leveraging Digital Games and Gaming Approaches for Engagement, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
23. March 20, 2019, Suicide Prevention Gatekeeper Training, QPR (Question Persuade Refer), 0.2 CEUs, Student Counseling Service, Division of Student Affairs, Texas A&M University College Station, TX.
24. March 6, 2019, Aggie Disability Awareness Workshop, 0.2 CEUs, Education & Human Development, Texas A&M University College Station, TX.
25. February 26, 2019, Practice, Practice, Practice: Designing Meaningful In-Class Learning Experiences for Students, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
26. February 20, 2019, Practice, Practice, Practice: Promoting Classroom Climate: Laying the Social Groundwork for Better Learning, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
27. June 2-3, 2018, Program Evaluator Candidate Training, 1 CEUs, ABET (Accreditation Board for Engineering and Technology, Inc.), Baltimore, Maryland.
28. October 17, 2017, Creating Inclusive Classrooms for LGBTQ+ Students, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
29. April 18, 2017, Faculty Feedback – It Matters What you Say, 0.2 CEUs, Women in Engineering (WE) Program-Faculty Focus, Texas A&M University College Station, TX.
30. March 23, 2017, Increasing Diversity within YOUR Faculty Pool, 0.2 CEUs, Women in Engineering (WE) Program-Faculty Focus, Texas A&M University College Station, TX.
31. February 2, 2017, Discussing Growth Mindset, 0.2 CEUs, Women in Engineering (WE) Program-Faculty Focus, Texas A&M University College Station, TX.
32. November 29, 2016, The Seventh Pedagogy Project, 0.2 CEUs, Supporting Transformational Learning, Disciplines Related to Technology-Enabled and Distance Education Programs, Texas A&M University College Station, TX.
33. November 22, 2016, The Sixth Pedagogy Project, 0.2 CEUs, Course Format: Face-to-Face, City Supporting Transformational Learning, Disciplines Related to Graduate and Professional Programs, Texas A&M University College Station, TX.
34. October 27, 2016, The Second Pedagogy Project, 0.2 CEUs, Supporting Transformational Learning, Disciplines Related to Mathematics and the Physical and Earth Sciences, Texas A&M University College Station, TX.

35. August 4, 2015, FIT A Basic Guide to Digital Multimedia Production for Teaching and Learning 8-4, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
36. July 9, 2015, Working with Students with Disabilities 7-9, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
37. June 25, 2015, Lecture Well 6-25, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
38. April 28, 2015, Course Design Series Session III 4/28, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
39. April 23, 2015, Diversity & Global Learning 4/23, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
40. April 21, 2015, Course Design Series Session II 4/21, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
41. April 14, 2015, Course Design Series Session I 14/14, 0.2 CEUs, Center for Teaching Excellence, Texas A&M University College Station, TX.
42. April 13, 2015, ADVANCE-STRIDE (The Strategies and Tactics for Recruiting to Improve Diversity and Excellence), 0.2 CEUs, Texas A&M University College Station, TX.
43. March 30-31, 2015, Roadmap for a Successful Academic Career Workshop, 10 CEUs, ADVANCE Center, Texas A&M University College Station, TX.
44. February 23, 2015, ADVANCE-STRIDE (The Strategies and Tactics for Recruiting to Improve Diversity and Excellence), 0.2 CEUs, Texas A&M University College Station, TX.
45. April 6-8, 2014, Attention Faculty in STEM Disciplines, 1 CEUs, CIRTL, Center for Teaching Excellence, and Office of Graduate and Professional Studies, Texas A&M University, College Station, TX.
46. March 31, 2014, Attention Faculty in STEM Disciplines, 0.5 CEUs, CIRTL, Center for Teaching Excellence, and Office of Graduate and Professional Studies, Texas A&M University, College Station, TX.
47. February 2013, Fair Use: Using Copyrighted Material in Your Thesis/Dissertation and Other Research Works - Copyright and Publishing Series, 0.2 CEUs, Texas A&M University, College Station, TX.
48. February 2013, Creative Commons Licenses: A Prerequisite for Publishing Your Research via Open Access, 0.2 CEUs, Texas A&M University, College Station, TX.
49. January 2013-May 2013, Kick Start Your Teaching – Effectiveness and Efficiency, 2 CEUs, Texas A&M University, College Station, TX.
50. December 2012, Writing with P.O.W.E.R! A Writing Productivity Program for New Faculty, 2 CEUs, Texas A&M University, College Station, TX.
51. March 2011, Petrel Reservoir Engineering, Schlumberger, 3 CEUs, Calgary, AB, CANADA, Alberta.
52. March 2011, Oil Field Manager (OFM) Fundamentals and Forecast Analysis, Schlumberger, 3 CEUs, Crawley, UK.
53. February 2011, Eclipse Thermal, Schlumberger, 5 CEUs, Abingdon, UK.
54. Summer 2006, European School of English, 12 CEUs, Paceville, Malta.
55. Summer 2006, International Summer School of Geothermal Exploration, 8 CEUs, Izmir, Turkey.