# Chun Huh

List of Publications by Year
in descending order

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|---|---|---|---|
| 79 papers | 4,033 citations | 136885 32 h-index | 161767 54 g-index |
| 82 all docs | 82 docs citations | 82 times ranked | 2919 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Interfacial tensions and solubilizing ability of a microemulsion phase that coexists with oil and brine. Journal of Colloid and Interface Science, 1979, 71, 408-426. | 5.0 | 561 |
| 2 | Nanoparticle-stabilized carbon dioxide-in-water foams with fine texture. Journal of Colloid and Interface Science, 2013, 391, 142-151. | 5.0 | 189 |
| 3 | A 2.5-D glass micromodel for investigation of multi-phase flow in porous media. Lab on A Chip, 2017, 17, 640-646. | 3.1 | 159 |
| 4 | Nanoparticle-Stabilized Emulsions for Applications in Enhanced Oil Recovery. , 2010, , . | | 147 |
| 5 | A critical review on use of polymer microgels for conformance control purposes. Journal of Petroleum Science and Engineering, 2014, 122, 741-753. | 2.1 | 139 |
| 6 | Nanoparticle-Stabilized Supercritical CO2 Foams for Potential Mobility Control Applications. , 2010, , . | | 136 |
| 7 | Size-dependent properties of silica nanoparticles for Pickering stabilization of emulsions and foams. Journal of Nanoparticle Research, 2016, 18, 1. | 0.8 | 129 |
| 8 | Viscosity and stability of ultra-high internal phase CO2-in-water foams stabilized with surfactants and nanoparticles with or without polyelectrolytes. Journal of Colloid and Interface Science, 2016, 461, 383-395. | 5.0 | 123 |
| 9 | Investigation of Nanoparticle Adsorption During Transport in Porous Media. SPE Journal, 2015, 20, 667-677. | 1.7 | 119 |
| 10 | A Microfluidic Investigation of the Synergistic Effect of Nanoparticles and Surfactants in Macro-Emulsion-Based Enhanced Oil Recovery. SPE Journal, 2017, 22, 459-469. | 1.7 | 87 |
| 11 | Enhanced Migration of Surface-Treated Nanoparticles in Sedimentary Rocks. , 2009, , . | | 86 |
| 12 | Use of nanoparticles for oil production applications. Journal of Petroleum Science and Engineering, 2019, 172, 97-114. | 2.1 | 81 |
| 13 | Theoretical and experimental investigation of the motion of multiphase fluids containing paramagnetic nanoparticles in porous media. Journal of Petroleum Science and Engineering, 2012, 81, 129-144. | 2.1 | 72 |
| 14 | Graphene oxide nanoplatelet dispersions in concentrated NaCl and stabilization of oil/water emulsions. Journal of Colloid and Interface Science, 2013, 403, 1-6. | 5.0 | 72 |
| 15 | Ultradry Carbon Dioxide-in-Water Foams with Viscoelastic Aqueous Phases. Langmuir, 2016, 32, 28-37. | 1.6 | 71 |
| 16 | Effect of Adsorbed Amphiphilic Copolymers on the Interfacial Activity of Superparamagnetic Nanoclusters and the Emulsification of Oil in Water. Macromolecules, 2012, 45, 5157-5166. | 2.2 | 66 |
| 17 | Stabilization of Iron Oxide Nanoparticles in High Sodium and Calcium Brine at High Temperatures with Adsorbed Sulfonated Copolymers. Langmuir, 2013, 29, 3195-3206. | 1.6 | 65 |
| 18 | Recent Advances Incorporating Superparamagnetic Nanoparticles into Immunoassays. ACS Applied Nano Materials, 2018, 1, 512-521. | 2.4 | 64 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Stable Citrate-Coated Iron Oxide Superparamagnetic Nanoclusters at High Salinity. Industrial & Engineering Chemistry Research, 2010, 49, 12435-12443. | 1.8 | 63 |
| 20 | Aggregation of silica nanoparticles and its impact on particle mobility under high-salinity conditions. Journal of Petroleum Science and Engineering, 2015, 133, 376-383. | 2.1 | 62 |
| 21 | Microfluidic Investigation of Nanoparticlesâ€™ Role in Mobilizing Trapped Oil Droplets in Porous Media. Langmuir, 2015, 31, 13673-13679. | 1.6 | 60 |
| 22 | A Rheological Model for pH-Sensitive Ionic Polymer Solutions for Optimal Mobility-Control Applications. , 2005, , . | | 59 |
| 23 | Foams and Emulsions Stabilized With Nanoparticles for Potential Conformance Control Applications. , 2009, , . | | 58 |
| 24 | Equilibrium of a Microemulsion That Coexists With Oil or Brine. Society of Petroleum Engineers Journal, 1983, 23, 829-847. | 0.9 | 52 |
| 25 | Superparamagnetic nanoclusters coated with oleic acid bilayers for stabilization of emulsions of water and oil at low concentration. Journal of Colloid and Interface Science, 2010, 351, 225-232. | 5.0 | 52 |
| 26 | Stabilization of Superparamagnetic Iron Oxide Nanoclusters in Concentrated Brine with Cross-Linked Polymer Shells. Langmuir, 2011, 27, 10962-10969. | 1.6 | 50 |
| 27 | Chemical and Hydrodynamic Mechanisms for Long-Term Geological Carbon Storage. Journal of Physical Chemistry C, 2014, 118, 15103-15113. | 1.5 | 50 |
| 28 | Crosswell Magnetic Sensing of Superparamagnetic Nanoparticles for Subsurface Applications. SPE Journal, 2015, 20, 1067-1082. | 1.7 | 46 |
| 29 | Screening Criteria and Considerations of Offshore Enhanced Oil Recovery. Energies, 2016, 9, 44. | 1.6 | 45 |
| 30 | Transport of Nanoparticle-Stabilized CO $$_2$$ 2 -Foam in Porous Media. Transport in Porous Media, 2016, 111, 265-285. | 1.2 | 44 |
| 31 | Development of a Viscoelastic Property Database for EOR Polymers. , 2010, , . | | 43 |
| 32 | Adsorption of iron oxide nanoclusters stabilized with sulfonated copolymers on silica in concentrated NaCl and CaCl2 brine. Journal of Colloid and Interface Science, 2013, 398, 217-226. | 5.0 | 41 |
| 33 | Mechanistic Model for Nanoparticle Retention in Porous Media. Transport in Porous Media, 2016, 115, 387-406. | 1.2 | 41 |
| 34 | Fly ash nanoparticles as a CO2 foam stabilizer. Powder Technology, 2015, 283, 77-84. | 2.1 | 39 |
| 35 | Carbon Dioxide-in-Water Foams Stabilized with a Mixture of Nanoparticles and Surfactant for CO2 Storage and Utilization Applications. Energy Procedia, 2014, 63, 7929-7938. | 1.8 | 37 |
| 36 | Effects of Magnetic Field on the Motion of Multiphase Fluids Containing Paramagnetic Particles in Porous Media. , 2010, , . | | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Nanoparticle Stabilized Carbon Dioxide in Water Foams for Enhanced Oil Recovery. , 2012, , . | | 36 |
| 38 | Formation of a middle-phase from a lower or upper-phase microemulsion. Journal of Colloid and Interface Science, 1984, 97, 201-219. | 5.0 | 35 |
| 39 | Viscosity Model of Preformed Microgels for Conformance and Mobility Control. Energy & Fuels, 2011, 25, 5033-5037. | 2.5 | 34 |
| 40 | Modeling fracture propagation and cleanup for dry nanoparticle-stabilized-foam fracturing fluids. Journal of Petroleum Science and Engineering, 2016, 146, 210-221. | 2.1 | 32 |
| 41 | Conditions for Generating Nanoparticle-Stabilized CO2 Foams in Fracture and Matrix Flow. , 2013, , . | | 31 |
| 42 | Flow enhancement of water-based nanoparticle dispersion through microscale sedimentary rocks. Scientific Reports, 2015, 5, 8702. | 1.6 | 30 |
| 43 | Transport Model Implementation and Simulation of Microgel Processes for Conformance and Mobility Control Purposes. Energy & Fuels, 2011, 25, 5063-5075. | 2.5 | 28 |
| 44 | Fly Ash Nanoparticle-Stabilized CO2-in-Water Foams for Gas Mobility Control Applications. , 2015, , . | | 23 |
| 45 | Artificial Neural Network Model to Estimate the Viscosity of Polymer Solutions for Enhanced Oil Recovery. Applied Sciences (Switzerland), 2016, 6, 188. | 1.3 | 23 |
| 46 | Foam Generation Hysteresis in Porous Media: Experiments and New Insights. Transport in Porous Media, 2017, 116, 687-703. | 1.2 | 23 |
| 47 | Measuring and modeling the magnetic settling of superparamagnetic nanoparticle dispersions. Journal of Colloid and Interface Science, 2015, 447, 58-67. | 5.0 | 21 |
| 48 | An experimental and numerical study of wellbore leakage mitigation using pH-triggered polymer gelant. Fuel, 2018, 217, 444-457. | 3.4 | 21 |
| 49 | Control of magnetite primary particle size in aqueous dispersions of nanoclusters for high magnetic susceptibilities. Journal of Colloid and Interface Science, 2016, 462, 359-367. | 5.0 | 20 |
| 50 | Focused Magnetic Heating Utilizing Superparamagnetic Nanoparticles for Improved Oil Production Applications. , 2012, , . | | 19 |
| 51 | Nanoparticle-Stabilized Emulsions for Improved Mobility Control for Adverse-mobility Waterflooding. , 2016, , . | | 17 |
| 52 | Multi-Scale Evaluation of Nanoparticle-Stabilized CO2-in-Water Foams: From the Benchtop to the Field. , 2015, , . | | 16 |
| 53 | Oil Droplet Removal from Produced Water Using Nanoparticles and Their Magnetic Separation. , 2016, , . | | 15 |
| 54 | Development and Use of a Simulation Model for Mobility/Conformance Control Using a pH-Sensitive Polymer. , 2007, , . | | 14 |

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|---|---|---|---|
| 55 | Accelerated Oil Droplet Separation from Produced Water Using Magnetic Nanoparticles. , 2014, , . | | 14 |
| 56 | The Use of a pH-Triggered Polymer Gelant to Seal Cement Fractures in Wells. SPE Drilling and Completion, 2016, 31, 225-235. | 0.9 | 14 |
| 57 | Efficient Removal of Enhanced-Oil-Recovery Polymer From Produced Water With Magnetic Nanoparticles and Regeneration/Reuse of Spent Particles. SPE Production and Operations, 2017, 32, 374-381. | 0.4 | 13 |
| 58 | Nanoparticle-Stabilized Natural Gas Liquid-in-Water Emulsions for Residual Oil Recovery. , 2016, , . | | 12 |
| 59 | On the feasibility of inducing oil mobilization in existing reservoirs via wellbore harmonic fluid action. Journal of Petroleum Science and Engineering, 2011, 76, 116-123. | 2.1 | 11 |
| 60 | Application of pH-Triggered Polymers in Fractured Reservoirs to Increase Sweep Efficiency. , 2008, , . | | 10 |
| 61 | Highly porous CO2 hydrate generation aided by silica nanoparticles for potential secure storage of CO2 and desalination. RSC Advances, 2017, 7, 9545-9550. | 1.7 | 10 |
| 62 | Theoretical and Experimental Investigation of the Motion of Multiphase Fluids Containing Paramagnetic Nanoparticles in Porous Media. , 2010, , . | | 9 |
| 63 | One-Step Synthesis and Functionalization of High-Salinity-Tolerant Magnetite Nanoparticles with Sulfonated Phenolic Resin. Langmuir, 2019, 35, 8769-8775. | 1.6 | 9 |
| 64 | Maximization of Oil Mobility within a Hydrocarbon Reservoir for Elastic Wave-based Enhanced Oil Recovery. , 2011, , . | | 8 |
| 65 | Quasi-static analysis of a ferrofluid blob in a capillary tube. Journal of Applied Physics, 2012, 111, 074901. | 1.1 | 8 |
| 66 | Crosswell Magnetic Sensing of Superparamagnetic Nanoparticles for Subsurface Applications. , 2013, , . | | 8 |
| 67 | Efficient Removal of EOR Polymer from Produced Water Using Magnetic Nanoparticles and Regeneration/Re-Use of Spent Particles. , 2016, , . | | 8 |
| 68 | Precision Control of Gel Formation Using Superparamagnetic Nanoparticle-Based Heating. , 2015, , . | | 7 |
| 69 | Excitable Nanoparticles for Trapped Oil Mobilization. , 2014, , . | | 5 |
| 70 | The Use of a pH-Triggered Polymer Gelant to Seal Cement Fractures in Wells. , 2015, , . | | 5 |
| 71 | Alkaline Earth Element Adsorption onto PAA-Coated Magnetic Nanoparticles. Energies, 2017, 10, 223. | 1.6 | 5 |
| 72 | Estimation of Oil Production Rates in Reservoirs Exposed to Focused Vibrational Energy. , 2014, , . | | 4 |

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|---|---|---|---|
| 73 | Temperature Dependence of the Shear-Thinning Behavior o Partially Hydrolyzed Polyacrylamide Solution for Enhanced Oil Recovery. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, . | 1.4 | 4 |
| 74 | Viscosity and Stability of Dry CO2 Foams for Improved Oil Recovery. , 2016, , . | | 3 |
| 75 | A two-site filtration model for silica nanoaggregate mobility in porous media under high salinity conditions. Journal of Nanoparticle Research, 2018, 20, 1. | 0.8 | 3 |
| 76 | Temperature dependence of relaxation time of hydrolyzed polyacrylamide solution for enhanced oil recovery. Journal of Industrial and Engineering Chemistry, 2019, 78, 257-264. | 2.9 | 3 |
| 77 | Silica, Fly Ash and Magnetite Nanoparticles for Improved Oil and Gas Production. Journal of the Korean Society of Mineral and Energy Resources Engineers, 2018, 55, 272-284. | 0.1 | 3 |
| 78 | Spontaneous generation of stable CO2 emulsions via the dissociation of nanoparticle-aided CO2 hydrate. Journal of Petroleum Science and Engineering, 2021, , 109203. | 2.1 | 1 |
| 79 | Retention of Iron-Oxide Nanoparticles in Sandstone Rocks with High Salinity. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5693-5698. | 0.4 | 1 |