

# Chun Huh

## List of Publications by Year in descending order

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79  
papers

4,033  
citations

136950

32  
h-index

161849

54  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous generation of stable CO <sub>2</sub> emulsions via the dissociation of nanoparticle-aided CO <sub>2</sub> hydrate. <i>Journal of Petroleum Science and Engineering</i> , 2021, , 109203.	4.2	1
2	Temperature Dependence of the Shear-Thinning Behavior o Partially Hydrolyzed Polyacrylamide Solution for Enhanced Oil Recovery. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	4
3	Temperature dependence of relaxation time of hydrolyzed polyacrylamide solution for enhanced oil recovery. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 257-264.	5.8	3
4	One-Step Synthesis and Functionalization of High-Salinity-Tolerant Magnetite Nanoparticles with Sulfonated Phenolic Resin. <i>Langmuir</i> , 2019, 35, 8769-8775.	3.5	9
5	Use of nanoparticles for oil production applications. <i>Journal of Petroleum Science and Engineering</i> , 2019, 172, 97-114.	4.2	81
6	An experimental and numerical study of wellbore leakage mitigation using pH-triggered polymer gelant. <i>Fuel</i> , 2018, 217, 444-457.	6.4	21
7	Recent Advances Incorporating Superparamagnetic Nanoparticles into Immunoassays. <i>ACS Applied Nano Materials</i> , 2018, 1, 512-521.	5.0	64
8	A two-site filtration model for silica nanoaggregate mobility in porous media under high salinity conditions. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	3
9	Silica, Fly Ash and Magnetite Nanoparticles for Improved Oil and Gas Production. <i>Journal of the Korean Society of Mineral and Energy Resources Engineers</i> , 2018, 55, 272-284.	0.4	3
10	A 2.5-D glass micromodel for investigation of multi-phase flow in porous media. <i>Lab on A Chip</i> , 2017, 17, 640-646.	6.0	159
11	Highly porous CO <sub>2</sub> hydrate generation aided by silica nanoparticles for potential secure storage of CO <sub>2</sub> and desalination. <i>RSC Advances</i> , 2017, 7, 9545-9550.	3.6	10
12	Efficient Removal of Enhanced-Oil-Recovery Polymer From Produced Water With Magnetic Nanoparticles and Regeneration/Reuse of Spent Particles. <i>SPE Production and Operations</i> , 2017, 32, 374-381.	0.6	13
13	Foam Generation Hysteresis in Porous Media: Experiments and New Insights. <i>Transport in Porous Media</i> , 2017, 116, 687-703.	2.6	23
14	A Microfluidic Investigation of the Synergistic Effect of Nanoparticles and Surfactants in Macro-Emulsion-Based Enhanced Oil Recovery. <i>SPE Journal</i> , 2017, 22, 459-469.	3.1	87
15	Alkaline Earth Element Adsorption onto PAA-Coated Magnetic Nanoparticles. <i>Energies</i> , 2017, 10, 223.	3.1	5
16	Screening Criteria and Considerations of Offshore Enhanced Oil Recovery. <i>Energies</i> , 2016, 9, 44.	3.1	45
17	Artificial Neural Network Model to Estimate the Viscosity of Polymer Solutions for Enhanced Oil Recovery. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 188.	2.5	23
18	Mechanistic Model for Nanoparticle Retention in Porous Media. <i>Transport in Porous Media</i> , 2016, 115, 387-406.	2.6	41

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19	Efficient Removal of EOR Polymer from Produced Water Using Magnetic Nanoparticles and Regeneration/Re-Use of Spent Particles. , 2016, , .		8
20	The Use of a pH-Triggered Polymer Gelant to Seal Cement Fractures in Wells. SPE Drilling and Completion, 2016, 31, 225-235.	1.6	14
21	Oil Droplet Removal from Produced Water Using Nanoparticles and Their Magnetic Separation. , 2016, , .		15
22	Modeling fracture propagation and cleanup for dry nanoparticle-stabilized-foam fracturing fluids. Journal of Petroleum Science and Engineering, 2016, 146, 210-221.	4.2	32
23	Nanoparticle-Stabilized Natural Gas Liquid-in-Water Emulsions for Residual Oil Recovery. , 2016, , .		12
24	Nanoparticle-Stabilized Emulsions for Improved Mobility Control for Adverse-mobility Waterflooding. , 2016, , .		17
25	Viscosity and Stability of Dry CO <sub>2</sub> Foams for Improved Oil Recovery. , 2016, , .		3
26	Size-dependent properties of silica nanoparticles for Pickering stabilization of emulsions and foams. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	129
27	Ultradry Carbon Dioxide-in-Water Foams with Viscoelastic Aqueous Phases. Langmuir, 2016, 32, 28-37.	3.5	71
28	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.	9.4	20
29	Transport of Nanoparticle-Stabilized CO <sub>2</sub> -Foam in Porous Media. Transport in Porous Media, 2016, 111, 265-285.	2.6	44
30	Viscosity and stability of ultra-high internal phase CO <sub>2</sub> -in-water foams stabilized with surfactants and nanoparticles with or without polyelectrolytes. Journal of Colloid and Interface Science, 2016, 461, 383-395.	9.4	123
31	Retention of Iron-Oxide Nanoparticles in Sandstone Rocks with High Salinity. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5693-5698.	0.4	1
32	The Use of a pH-Triggered Polymer Gelant to Seal Cement Fractures in Wells. , 2015, , .		5
33	Crosswell Magnetic Sensing of Superparamagnetic Nanoparticles for Subsurface Applications. SPE Journal, 2015, 20, 1067-1082.	3.1	46
34	Fly Ash Nanoparticle-Stabilized CO <sub>2</sub> -in-Water Foams for Gas Mobility Control Applications. , 2015, , .		23
35	Multi-Scale Evaluation of Nanoparticle-Stabilized CO <sub>2</sub> -in-Water Foams: From the Benchtop to the Field. , 2015, , .		16
36	Precision Control of Gel Formation Using Superparamagnetic Nanoparticle-Based Heating. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
37	Fly ash nanoparticles as a CO <sub>2</sub> foam stabilizer. Powder Technology, 2015, 283, 77-84.	4.2	39
38	Investigation of Nanoparticle Adsorption During Transport in Porous Media. SPE Journal, 2015, 20, 667-677.	3.1	119
39	Microfluidic Investigation of Nanoparticles' Role in Mobilizing Trapped Oil Droplets in Porous Media. Langmuir, 2015, 31, 13673-13679.	3.5	60
40	Measuring and modeling the magnetic settling of superparamagnetic nanoparticle dispersions. Journal of Colloid and Interface Science, 2015, 447, 58-67.	9.4	21
41	Aggregation of silica nanoparticles and its impact on particle mobility under high-salinity conditions. Journal of Petroleum Science and Engineering, 2015, 133, 376-383.	4.2	62
42	Flow enhancement of water-based nanoparticle dispersion through microscale sedimentary rocks. Scientific Reports, 2015, 5, 8702.	3.3	30
43	Excitable Nanoparticles for Trapped Oil Mobilization. , 2014, , .		5
44	A critical review on use of polymer microgels for conformance control purposes. Journal of Petroleum Science and Engineering, 2014, 122, 741-753.	4.2	139
45	Estimation of Oil Production Rates in Reservoirs Exposed to Focused Vibrational Energy. , 2014, , .		4
46	Chemical and Hydrodynamic Mechanisms for Long-Term Geological Carbon Storage. Journal of Physical Chemistry C, 2014, 118, 15103-15113.	3.1	50
47	Accelerated Oil Droplet Separation from Produced Water Using Magnetic Nanoparticles. , 2014, , .		14
48	Carbon Dioxide-in-Water Foams Stabilized with a Mixture of Nanoparticles and Surfactant for CO <sub>2</sub> Storage and Utilization Applications. Energy Procedia, 2014, 63, 7929-7938.	1.8	37
49	Stabilization of Iron Oxide Nanoparticles in High Sodium and Calcium Brine at High Temperatures with Adsorbed Sulfonated Copolymers. Langmuir, 2013, 29, 3195-3206.	3.5	65
50	Graphene oxide nanoplatelet dispersions in concentrated NaCl and stabilization of oil/water emulsions. Journal of Colloid and Interface Science, 2013, 403, 1-6.	9.4	72
51	Adsorption of iron oxide nanoclusters stabilized with sulfonated copolymers on silica in concentrated NaCl and CaCl <sub>2</sub> brine. Journal of Colloid and Interface Science, 2013, 398, 217-226.	9.4	41
52	Nanoparticle-stabilized carbon dioxide-in-water foams with fine texture. Journal of Colloid and Interface Science, 2013, 391, 142-151.	9.4	189
53	Crosswell Magnetic Sensing of Superparamagnetic Nanoparticles for Subsurface Applications. , 2013, , .		8
54	Conditions for Generating Nanoparticle-Stabilized CO <sub>2</sub> Foams in Fracture and Matrix Flow. , 2013, , .		31

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55	Quasi-static analysis of a ferrofluid blob in a capillary tube. Journal of Applied Physics, 2012, 111, 074901.	2.5	8
56	Focused Magnetic Heating Utilizing Superparamagnetic Nanoparticles for Improved Oil Production Applications. , 2012, , .		19
57	Effect of Adsorbed Amphiphilic Copolymers on the Interfacial Activity of Superparamagnetic Nanoclusters and the Emulsification of Oil in Water. Macromolecules, 2012, 45, 5157-5166.	4.8	66
58	Nanoparticle Stabilized Carbon Dioxide in Water Foams for Enhanced Oil Recovery. , 2012, , .		36
59	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.	4.2	72
60	Maximization of Oil Mobility within a Hydrocarbon Reservoir for Elastic Wave-based Enhanced Oil Recovery. , 2011, , .		8
61	Stabilization of Superparamagnetic Iron Oxide Nanoclusters in Concentrated Brine with Cross-Linked Polymer Shells. Langmuir, 2011, 27, 10962-10969.	3.5	50
62	Viscosity Model of Preformed Microgels for Conformance and Mobility Control. Energy & Fuels, 2011, 25, 5033-5037.	5.1	34
63	Transport Model Implementation and Simulation of Microgel Processes for Conformance and Mobility Control Purposes. Energy & Fuels, 2011, 25, 5063-5075.	5.1	28
64	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.	4.2	11
65	Development of a Viscoelastic Property Database for EOR Polymers. , 2010, , .		43
66	Stable Citrate-Coated Iron Oxide Superparamagnetic Nanoclusters at High Salinity. Industrial & Engineering Chemistry Research, 2010, 49, 12435-12443.	3.7	63
67	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.	9.4	52
68	Theoretical and Experimental Investigation of the Motion of Multiphase Fluids Containing Paramagnetic Nanoparticles in Porous Media. , 2010, , .		9
69	Effects of Magnetic Field on the Motion of Multiphase Fluids Containing Paramagnetic Particles in Porous Media. , 2010, , .		36
70	Nanoparticle-Stabilized Supercritical CO2 Foams for Potential Mobility Control Applications. , 2010, , .		136
71	Nanoparticle-Stabilized Emulsions for Applications in Enhanced Oil Recovery. , 2010, , .		147
72	Foams and Emulsions Stabilized With Nanoparticles for Potential Conformance Control Applications. , 2009, , .		58

#	ARTICLE	IF	CITATIONS
73	Enhanced Migration of Surface-Treated Nanoparticles in Sedimentary Rocks. , 2009, , .		86
74	Application of pH-Triggered Polymers in Fractured Reservoirs to Increase Sweep Efficiency. , 2008, , .		10
75	Development and Use of a Simulation Model for Mobility/Conformance Control Using a pH-Sensitive Polymer. , 2007, , .		14
76	A Rheological Model for pH-Sensitive Ionic Polymer Solutions for Optimal Mobility-Control Applications. , 2005, , .		59
77	Formation of a middle-phase from a lower or upper-phase microemulsion. Journal of Colloid and Interface Science, 1984, 97, 201-219.	9.4	35
78	Equilibrium of a Microemulsion That Coexists With Oil or Brine. Society of Petroleum Engineers Journal, 1983, 23, 829-847.	0.9	52
79	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.	9.4	561