

Robin Singh

List of Publications by Year in descending order

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22
papers

652
citations

759233

12
h-index

940533

16
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22
all docs

22
docs citations

22
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse design of photonic meta-structure for beam collimation in on-chip sensing. Scientific Reports, 2021, 11, 5343.	3.3	6
2	Study of Nanoparticle-Stabilized Foams in Harsh Reservoir Conditions. Transport in Porous Media, 2020, 131, 135-155.	2.6	31
3	Design of optical meta-structures with applications to beam engineering using deep learning. Scientific Reports, 2020, 10, 19923.	3.3	13
4	Ultra-high sensitive all-optical photoacoustic transducers. , 2020, , .		2
5	Mapping the design space of photonic topological states via deep learning. Optics Express, 2020, 28, 27893.	3.4	35
6	Leveraging Integrated Photonics for Ultrasound Sensing Applications. , 2020, , .		0
7	Integrated Mid-IR Photonics for Gas and Aerosol Sensors. , 2020, , .		0
8	Stimulation of Calcite-Rich Shales Using Nanoparticle-Microencapsulated Acids. SPE Journal, 2019, 24, 2671-2680.	3.1	15
9	Proppant transport in foam fracturing fluid during hydraulic fracturing. Journal of Petroleum Science and Engineering, 2019, 182, 106279.	4.2	33
10	Polymer Flooding in Oil-Wet, 2D Heterogeneous Porous Media. , 2019, , .		5
11	Chemical Characterization of Aerosol Particles Using On-Chip Photonic Cavity Enhanced Spectroscopy. ACS Sensors, 2019, 4, 571-577.	7.8	16
12	A visualization study of proppant transport in foam fracturing fluids. Journal of Natural Gas Science and Engineering, 2018, 52, 235-247.	4.4	48
13	Towards on-chip mid infrared photonic aerosol spectroscopy. Applied Physics Letters, 2018, 113, 231107.	3.3	17
14	Multistimuli-Responsive Foams Using an Anionic Surfactant. Langmuir, 2018, 34, 11010-11020.	3.5	26
15	Foam flow in a layered, heterogeneous porous medium: A visualization study. Fuel, 2017, 197, 58-69.	6.4	108
16	Microencapsulation and Stimuli-Responsive Controlled Release of Particles Using Water-in-Air Powders. Langmuir, 2017, 33, 3998-4010.	3.5	12
17	Proppant Transport in Fractures with Foam-Based Fracturing Fluids. , 2017, , .		9
18	Microencapsulation of Acids by Nanoparticles for Acid Treatment of Shales. Energy & Fuels, 2017, 31, 11755-11764.	5.1	20

#	ARTICLE	IF	CITATIONS
19	Nanoparticle-Stabilized Foams for High-Temperature, High-Salinity Oil Reservoirs. , 2017, , .		35
20	Cationic Hemicellulose As a Product of Dissolving Pulp Based Biorefinery. Industrial & Engineering Chemistry Research, 2015, 54, 1426-1432.	3.7	9
21	Synergy between Nanoparticles and Surfactants in Stabilizing Foams for Oil Recovery. Energy & Fuels, 2015, 29, 467-479.	5.1	199
22	Preparation and characterization of cationic poly vinyl alcohol with a low degree of substitution. European Polymer Journal, 2011, 47, 997-1004.	5.4	13