

# Joanna McFarlane

## List of Publications by Year in descending order

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44  
papers

1,106  
citations

566801

15  
h-index

476904

29  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1333  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring Noble Gases (Xe and Kr) and Aerosols (Cs and Rb) in a Molten Salt Reactor Surrogate Off-Gas Stream Using Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2022, 76, 988-997.	1.2	14
2	Charging of radioactive and environmental airborne particles. <i>Journal of Environmental Radioactivity</i> , 2022, 248, 106887.	0.9	2
3	Molecular Structure and Phase Equilibria of Molten Fluoride Salt with and without Dissolved Cesium: FLiNaK-CsF (5 mol %). <i>ACS Applied Energy Materials</i> , 2022, 5, 8067-8074.	2.5	4
4	Complex Structure of Molten NaCl-CrCl <sub>3</sub> Salt: Cr-Cl Octahedral Network and Intermediate-Range Order. <i>ACS Applied Energy Materials</i> , 2021, 4, 3044-3056.	2.5	14
5	Modeling molybdenum-99 production in molten salt reactors. <i>Nuclear Engineering and Design</i> , 2021, 379, 111243.	0.8	3
6	Water Migration and Swelling in Engineered Barrier Materials for Radioactive Waste Disposal. <i>Nuclear Technology</i> , 2021, 207, 1237-1256.	0.7	2
7	Comparison of Long-Term Bioenergy with Carbon Capture and Storage to Reference Power Generation Technologies Using CO <sub>2</sub> Avoidance Cost in the U.S.. <i>Energies</i> , 2021, 14, 7026.	1.6	3
8	Review of molten salt reactor off-gas management considerations. <i>Nuclear Engineering and Design</i> , 2021, 385, 111529.	0.8	24
9	Effect of Fluid Properties on Contact Angles in the Eagle Ford Shale Measured with Spontaneous Imbibition. <i>ACS Omega</i> , 2021, 6, 32618-32630.	1.6	0
10	Structural, Spectroscopic, and Kinetic Insight into the Heating Rate Dependence of Studtite and Metastudtite Dehydration. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26699-26713.	1.5	11
11	The Economic Accessibility of CO <sub>2</sub> Sequestration through Bioenergy with Carbon Capture and Storage (BECCS) in the US. <i>Land</i> , 2020, 9, 299.	1.2	11
12	Real time monitoring of the chemistry of hydroxylamine nitrate and iron as surrogates for nuclear materials processing. <i>Separation Science and Technology</i> , 2019, 54, 1985-1993.	1.3	1
13	Efficient Solar-Driven Thermal Distillation Desalination Device by Light Absorptive Carbon Composite Porous Foam. <i>Global Challenges</i> , 2019, 3, 1900003.	1.8	16
14	Molten salt reactor waste and effluent management strategies: A review. <i>Nuclear Engineering and Design</i> , 2019, 345, 94-109.	0.8	56
15	Solvent-pore interactions in the Eagle Ford shale formation. <i>Fuel</i> , 2019, 238, 298-311.	3.4	40
16	Quantum Cascade Laser Infrared Spectroscopy for Online Monitoring of Hydroxylamine Nitrate. <i>International Journal of Analytical Chemistry</i> , 2018, 2018, 1-9.	0.4	4
17	Using PCA and PLS on publicly available data to predict the extractability of hydrocarbons from shales. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 44, 109-121.	2.1	6
18	Spontaneous imbibition of water and determination of effective contact angles in the Eagle Ford Shale Formation using neutron imaging. <i>Journal of Earth Science (Wuhan, China)</i> , 2017, 28, 874-887.	1.1	32

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19	Extraction of organic compounds from representative shales and the effect on porosity. Journal of Natural Gas Science and Engineering, 2016, 35, 646-660.	2.1	40
20	Investigation of Catalytic Pathways and Separations for Lignin Breakdown into Monomers and Fuels. Separation Science and Technology, 2014, 49, 2783-2796.	1.3	1
21	Dissolution and Separation of Aluminum and Aluminosilicates. Separation Science and Technology, 2014, , 150527095459001.	1.3	1
22	Influence of Radioactivity on Surface Charging and Aggregation Kinetics of Particles in the Atmosphere. Environmental Science & Technology, 2014, 48, 182-189.	4.6	16
23	Performance and Thermal Stability of a Polyaromatic Hydrocarbon in a Simulated Concentrating Solar Power Loop. AIMS Energy, 2014, 2, 41-70.	1.1	2
24	Mixtures of SF <sub>6</sub> -CO <sub>2</sub> as working fluids for geothermal power plants. Applied Energy, 2013, 106, 243-253.	5.1	49
25	Influence of Surface Potential on the Adhesive Force of Radioactive Gold Surfaces. Langmuir, 2013, 29, 11876-11883.	1.6	11
26	Modeling the Autoignition of Fuel Blends with a Multistep Model. Energy & Fuels, 2011, 25, 632-639.	2.5	9
27	Mixtures of CO <sub>2</sub> -SF <sub>6</sub> as Working Fluids for Geothermal Plants. , 2011, , .		2
28	Influence of radioactivity on surface interaction forces. Journal of Colloid and Interface Science, 2010, 350, 595-598.	5.0	14
29	Evaluation of Phenylanthracenes as Heat Transfer Fluids for High Temperature Energy Applications. Separation Science and Technology, 2010, 45, 1908-1920.	1.3	8
30	Production of Biodiesel at the Kinetic Limit in a Centrifugal Reactor/Separator. Industrial & Engineering Chemistry Research, 2010, 49, 3160-3169.	1.8	25
31	Robustness of the CSSX Process to Feed Variation: Efficient Cesium Removal from the High Potassium Wastes at Hanford. Solvent Extraction and Ion Exchange, 2010, 28, 19-48.	0.8	29
32	Microcantilever sensors with chemically selective coatings of ionic liquids. AIChE Journal, 2007, 53, 2726-2731.	1.8	3
33	Room-Temperature Ionic Liquids in Liquid-Liquid Extraction: Effects of Solubility in Aqueous Solutions on Surface Properties. Solvent Extraction and Ion Exchange, 2006, 24, 33-56.	0.8	102
34	Separation of Ionic Liquid Dispersions in Centrifugal Solvent Extraction Contactors. Separation Science and Technology, 2006, 41, 2205-2223.	1.3	49
35	Application of Chemometrics to Modeling Produced Water Contamination. Separation Science and Technology, 2005, 40, 593-609.	1.3	2
36	Room Temperature Ionic Liquids for Separating Organics from Produced Water. Separation Science and Technology, 2005, 40, 1245-1265.	1.3	181

#	ARTICLE	IF	CITATIONS
37	Chemical Speciation of Iodine Source Term to Containment. Nuclear Technology, 2002, 138, 162-178.	0.7	28
38	Photodissociation dynamics of NO <sub>2</sub> at 248 nm. Journal of Photochemistry and Photobiology A: Chemistry, 1991, 58, 139-172.	2.0	36
39	Ultraviolet photodissociation dynamics of carbon suboxide. Journal of Photochemistry and Photobiology A: Chemistry, 1989, 46, 139-158.	2.0	18
40	The mechanisms of the physicochemical reactions in diorite used in the construction of ancient royal Egyptian statues. Canadian Journal of Chemistry, 1983, 61, 718-723.	0.6	2
41	Physical Properties of Bio-Diesel and Implications for Use of Bio-Diesel in Diesel Engines. , 0, , .		25
42	Comparison of Simulated and Experimental Combustion of Biodiesel Blends in a Single Cylinder Diesel HCCI Engine. , 0, , .		22
43	Effects of Fuel Physical Properties on Diesel Engine Combustion using Diesel and Bio-diesel Fuels. SAE International Journal of Fuels and Lubricants, 0, 1, 703-718.	0.2	77
44	Development and Validation of a Reduced Reaction Mechanism for Biodiesel-Fueled Engine Simulations. SAE International Journal of Fuels and Lubricants, 0, 1, 675-702.	0.2	88