

Abdolreza Farhadian

List of Publications by Year in descending order

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33
papers

1,088
citations

331259

21
h-index

476904

29
g-index

33
all docs

33
docs citations

33
times ranked

681
citing authors

#	ARTICLE	IF	CITATIONS
1	A theoretical and experimental study of castor oil-based inhibitor for corrosion inhibition of mild steel in acidic medium at elevated temperatures. <i>Corrosion Science</i> , 2020, 175, 108871.	3.0	161
2	Novel sucrose derivative as a thermally stable inhibitor for mild steel corrosion in 15% HCl medium: An experimental and computational study. <i>Chemical Engineering Journal</i> , 2022, 446, 136938.	6.6	66
3	Synthesis and characterization of a novel internal emulsifier derived from sunflower oil for the preparation of waterborne polyurethane and their application in coatings. <i>Progress in Organic Coatings</i> , 2017, 105, 303-309.	1.9	63
4	Synthesis of novel high primary hydroxyl functionality polyol from sunflower oil using thiol-yne reaction and their application in polyurethane coating. <i>European Polymer Journal</i> , 2016, 82, 220-231.	2.6	60
5	Sulfonated chitosan as green and high cloud point kinetic methane hydrate and corrosion inhibitor: Experimental and theoretical studies. <i>Carbohydrate Polymers</i> , 2020, 236, 116035.	5.1	56
6	Modified hydroxyethyl cellulose as a highly efficient eco-friendly inhibitor for suppression of mild steel corrosion in a 15% HCl solution at elevated temperatures. <i>Journal of Molecular Liquids</i> , 2021, 338, 116607.	2.3	48
7	Waterborne polymers as kinetic/anti-agglomerant methane hydrate and corrosion inhibitors: A new and promising strategy for flow assurance. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 77, 103235.	2.1	46
8	Exploration of Sunflower Oil As a Renewable Biomass Source to Develop Scalable and Highly Effective Corrosion Inhibitors in a 15% HCl Medium at High Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3119-3138.	4.0	46
9	A new class of promising biodegradable kinetic/anti-agglomerant methane hydrate inhibitors based on castor oil. <i>Chemical Engineering Science</i> , 2019, 206, 507-517.	1.9	43
10	Waterborne Polyurethanes as a New and Promising Class of Kinetic Inhibitors for Methane Hydrate Formation. <i>Scientific Reports</i> , 2019, 9, 9797.	1.6	40
11	Synthesis of fully bio-based and solvent free non-isocyanate poly (ester amide/urethane) networks with improved thermal stability on the basis of vegetable oils. <i>Polymer Degradation and Stability</i> , 2018, 155, 111-121.	2.7	39
12	Toward a bio-based hybrid inhibition of gas hydrate and corrosion for flow assurance. <i>Energy</i> , 2020, 210, 118549.	4.5	36
13	Gas Hydrate and Corrosion Inhibition Performance of the Newly Synthesized Polyurethanes: Potential Dual Function Inhibitors. <i>Energy & Fuels</i> , 2021, 35, 6113-6124.	2.5	36
14	Development of a Novel Thermally Stable Inhibitor Based on Furfuryl Alcohol for Mild Steel Corrosion in a 15% HCl Medium for Acidizing Application. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 11030-11044.	1.8	35
15	Accelerated Methane Hydrate Formation by Ethylene Diamine Tetraacetamide As an Efficient Promoter for Methane Storage without Foam Formation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7752-7760.	1.8	34
16	Synthesis of a bio-based plasticizer from oleic acid and its evaluation in PVC formulations. <i>Polymer Testing</i> , 2016, 56, 237-244.	2.3	32
17	Reconsideration of the micellization theory: Promotion or inhibition of gas hydrate formation for gas storage and flow assurance applications. <i>Chemical Engineering Journal</i> , 2022, 427, 131852.	6.6	32
18	Dual-Function Synergists Based on Glucose and Sucrose for Gas Hydrate and Corrosion Inhibition. <i>Energy & Fuels</i> , 2020, 34, 13717-13727.	2.5	30

#	ARTICLE	IF	CITATIONS
19	Deep Insights into Heavy Oil Upgrading Using Supercritical Water by a Comprehensive Analysis of GC, GCâ€‘MS, NMR, and SEMâ€‘EDX with the Aid of EPR as a Complementary Technical Analysis. ACS Omega, 2021, 6, 135-147.	1.6	25
20	Efficient dual-function inhibitors for prevention of gas hydrate formation and CO ₂ /H ₂ S corrosion inside oil and gas pipelines. Chemical Engineering Journal, 2022, 431, 134098.	6.6	25
21	Inhibition Performance of Chitosan- <i>graft</i> -Polyacrylamide as an Environmentally Friendly and High-Cloud-Point Inhibitor of Nucleation and Growth of Methane Hydrate. Crystal Growth and Design, 2020, 20, 1771-1778.	1.4	24
22	A Facile and Green Route for Conversion of Bifunctional Epoxide and Vegetable Oils to Cyclic Carbonate: A Green Route to CO ₂ Fixation. ChemistrySelect, 2017, 2, 1431-1435.	0.7	21
23	Effect of Ligand Structure on the Kinetics of Heavy Oil Oxidation: Toward Biobased Oil-Soluble Catalytic Systems for Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2021, 60, 14713-14727.	1.8	19
24	Renewable biosurfactants for energy-efficient storage of methane: An experimental and computational investigation. Chemical Engineering Journal, 2022, 427, 131723.	6.6	18
25	Dual Promotionâ€‘Inhibition Effects of Novel Ethylenediaminetetraacetic Acid Bisamides on Methane Hydrate Formation for Gas Storage and Flow Assurance Applications. Energy & Fuels, 2022, 36, 290-297.	2.5	18
26	Design, characterization and in vitro evaluation of novel amphiphilic block sunflower oil-based polyol nanocarrier as a potential delivery system: Raloxifene-hydrochloride as a model. Materials Science and Engineering C, 2017, 78, 59-68.	3.8	14
27	Sustained delivery of olanzapine from sunflower oilâ€‘based polyolâ€‘urethane nanoparticles synthesised through a cyclic carbonate ringâ€‘opening reaction. IET Nanobiotechnology, 2019, 13, 703-711.	1.9	12
28	Experimental study of non-oxidized and oxidized bitumen obtained from heavy oil. Scientific Reports, 2021, 11, 8107.	1.6	7
29	Novel Foaming Agent Based on Waterborne Polyurethane for Foam-Assisted Enhanced Oil Recovery. Energy & Fuels, 2022, 36, 2572-2581.	2.5	1
30	Development of high temperature corrosion inhibitors. , 2022, , 451-484.		1
31	Advances in the Study of Gas Hydrates by Dielectric Spectroscopy. Molecules, 2021, 26, 4459.	1.7	0
32	SYNTHESIS AND EVALUATION OF NEW KINETIC METHANE HYDRATE INHIBITORS BASED ON WATERBORNE POLYURETHANE. , 2018, , .		0
33	SYNTHESIS AND EVALUATION OF PHYSICOCHEMICAL PROPERTIES OF NEW CARBOXYLIC ACID SURFACTANT BASED ON GLUCOSE FOR ENHANCED OIL RECOVERY. , 2018, , .		0