Mohamed A Hegazy

List of Publications by Year
in descending order

57	3,412	117625	144013
papers	citations	34 h-index	57 g-index

58	58	58	1704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel Schiff base-based cationic gemini surfactants: Synthesis and effect on corrosion inhibition of carbon steel in hydrochloric acid solution. Corrosion Science, 2009, 51, 2610-2618.	6.6	243
2	Corrosion inhibition of carbon steel using novel N-(2-(2-mercaptoacetoxy)ethyl)-N,N-dimethyl dodecan-1-aminium bromide during acid pickling. Corrosion Science, 2013, 69, 110-122.	6.6	243
3	Three novel di-quaternary ammonium salts as corrosion inhibitors for API X65 steel pipeline in acidic solution. Part I: Experimental results. Corrosion Science, 2014, 81, 54-64.	6.6	184
4	Novel dispersed magnetite coreâ€“shell nanogel polymers as corrosion inhibitors for carbon steel in acidic medium. Corrosion Science, 2011, 53, 1680-1689.	6.6	163
5	Novel cationic gemini surfactants as corrosion inhibitors for carbon steel pipelines. Corrosion Science, 2010, 52, 2897-2904.	6.6	149
6	Evaluating four synthesized Schiff bases as corrosion inhibitors on the carbon steel in 1 M hydrochloric acid. Corrosion Science, 2012, 65, 67-76.	6.6	136
7	Investigation of the inhibitive effect of p-substituted 4-(N,N,N-dimethyldodecylammonium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Corrosion Science, 2011, 53, 671-678.	6.6	135
8	Synergistic inhibition effect of potassium iodide and novel Schiff bases on X65 steel corrosion in 0.5M H2SO4. Corrosion Science, 2013, 74, 168-177.	6.6	131
9	Novel quaternary ammonium hydroxide cationic surfactants as corrosion inhibitors for carbon steel and as biocides for sulfate reducing bacteria (SRB). Materials Chemistry and Physics, 2010, 124, 458-465.	4.0	119
10	An investigation of three novel nonionic surfactants as corrosion inhibitor for carbon steel in 0.5M H2SO4. Corrosion Science, 2012, 54, 219-230.	6.6	114
11	Novel cationic surfactant based on triazole as a corrosion inhibitor for carbon steel in phosphoric acid produced by dihydrate wet process. Journal of Molecular Liquids, 2015, 208, 227-236.	4.9	102
12	Novel cationic surfactants for corrosion inhibition of carbon steel pipelines in oil and gas wells applications. Journal of Molecular Liquids, 2016, 214, 347-356.	4.9	102
13	Inhibition effect of novel nonionic surfactants on the corrosion of carbon steel in acidic medium. Corrosion Science, 2010, 52, 1333-1341.	6.6	98
14	Preparation of Some Ecoâ€friendly Corrosion Inhibitors Having Antibacterial Activity from Sea Food Waste. Journal of Surfactants and Detergents, 2013, 16, 233-242.	2.1	85
15	Electrochemical studies on the inhibition behavior of copper corrosion in pickling acid using quaternary ammonium salts. Journal of Molecular Liquids, 2015, 209, 419-427.	4.9	71
16	Synthesis, surface properties and inhibition behavior of novel cationic gemini surfactant for corrosion of carbon steel tubes in acidic solution. Journal of Molecular Liquids, 2015, 211, 126-134.	4.9	70
17	Adsorption and inhibition performance of the novel cationic Gemini surfactant as a safe corrosion inhibitor for carbon steel in hydrochloric acid. Green Chemistry Letters and Reviews, 2018, 11, 457-468.	4.7	65
18	Synergistic inhibition effect between Cu2+ and cationic gemini surfactant on the corrosion of downhole tubing steel during secondary oil recovery of old wells. Corrosion Science, 2012, 61, 10-18.	6.6	64

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19	Synthesis and inhibitive performance of novel cationic and gemini surfactants on carbon steel corrosion in 0.5 M H₂SO₄solution. RSC Advances, 2015, 5, 64633-64650.	3.6	64
20	Adsorption and inhibition effect of novel cationic surfactant for pipelines carbon steel in acidic solution. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 721-730.	1.1	55
21	Synthesis and Inhibition Effect of a Novel Triâ€cationic Surfactant on Carbon Steel Corrosion in 0.5 M H₂SO₄ Solution. Journal of Surfactants and Detergents, 2014, 17, 341-352.	2.1	53
22	Empirical and theoretical investigations on the corrosion inhibition characteristics of mild steel by three new Schiff base derivatives. Journal of Adhesion Science and Technology, 2019, 33, 1139-1168.	2.6	48
23	Three novel bolaamphiphiles as corrosion inhibitors for carbon steel in hydrochloric acid: Experimental and computational studies. Journal of Molecular Liquids, 2016, 218, 649-662.	4.9	47
24	Synthesis, Surface Properties, Synergism Parameter and Inhibitive Performance of Novel Cationic Gemini Surfactant on Carbon Steel Corrosion in 1 M HCl Solution. Journal of Surfactants and Detergents, 2013, 16, 221-232.	2.1	46
25	Cationic Gemini Surfactant as a Corrosion Inhibitor and a Biocide for High Salinity Sulfidogenic Bacteria Originating from an Oilâ€Field Water Tank. Journal of Surfactants and Detergents, 2014, 17, 419-431.	2.1	46
26	A Corrosion Inhibition Study of a Novel Synthesized Gemini Nonionic Surfactant for Carbon Steel in 1 M HCl Solution. Journal of Surfactants and Detergents, 2013, 16, 757-766.	2.1	45
27	Synthesis and Characterization of a Novel Nonionic Gemini Surfactant as Corrosion Inhibitor for Carbon Steel in Acidic Solution. Chemical Engineering Communications, 2015, 202, 851-863.	2.6	45
28	Corrosion Inhibition of Carbon Steel Pipelines by Some New Amphoteric and Diâ€cationic Surfactants in Acidic Solution by Chemical and Electrochemical Methods. Journal of Surfactants and Detergents, 2016, 19, 861-871.	2.1	44
29	Synthesis of hexagonal WO3 nanocrystals with various morphologies and their enhanced electrocatalytic activities toward hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 4724-4736.	7.1	42
30	Corrosion Inhibition Performance of a Novel Cationic Surfactant for protection of Carbon Steel Pipeline in Acidic Media. International Journal of Electrochemical Science, 2018, 13, 6824-6842.	1.3	40
31	The biocidal effect of a novel synthesized gemini surfactant on environmental sulfidogenic bacteria: Planktonic cells and biofilms. Materials Science and Engineering C, 2015, 47, 367-375.	7.3	39
32	Monoâ€; Diâ€•and Tetraâ€Cationic Surfactants as Carbon Steel Corrosion Inhibitors. Journal of Surfactants and Detergents, 2015, 18, 1033-1042.	2.1	38
33	Studying the corrosion inhibition of carbon steel in hydrochloric acid solution by 1-dodecyl-methyl-1H-benzo[d][1,2,3]triazole-1-ium bromide. RSC Advances, 2015, 5, 49070-49079.	3.6	35
34	1-Dodecyl-4-(((3-morpholinopropyl)imino)methyl)pyridin-1-ium bromide as a novel corrosion inhibitor for carbon steel during phosphoric acid production. Journal of Industrial and Engineering Chemistry, 2015, 31, 91-99.	5.8	34
35	Synthesis of nonionic surfactants and their inhibitive action on carbon steel in hydrochloric acid. Corrosion Science, 2012, 64, 115-125.	6.6	32
36	The performance of hydrophobic and hydrophilic moieties in synthesized thiol cationic surfactants on corrosion inhibition of carbon steel in HCl. Egyptian Journal of Petroleum, 2015, 24, 493-503.	2.6	30

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37	Multiple Applications of a Novel Cationic Gemini Surfactant: Anti-Microbial, Anti-Biofilm, Biocide, Salinity Corrosion Inhibitor, and Biofilm Dispersion (Part II). Molecules, 2020, 25, 1348.	3.8	28
38	Syntheses and Characterization of Some Cationic Surfactants. Journal of Surfactants and Detergents, 2008, 11, 139-144.	2.1	27
39	Zinc(II) modified carbon paste electrodes based on self-assembled mercapto compounds-gold-nanoparticles for its determination in water samples. Journal of Industrial and Engineering Chemistry, 2014, 20, 3320-3328.	5.8	25
40	Study of the Inhibition Efficiency for Some Novel Surfactants on the Carbon Steel (Type H-11) Pipelines in 0.5ÂM HCl Solution by Potentiodynamic Technique. Journal of Dispersion Science and Technology, 2012, 33, 1444-1451.	2.4	24
41	Corrosion Resistance of Mild Steel Coated with Phthalimide-Functionalized Polybenzoxazines. Coatings, 2020, 10, 1114.	2.6	24
42	Selective cloud point extraction of thorium (IV) using tetraazonium based ionic liquid. Journal of Environmental Chemical Engineering, 2020, 8, 104185.	6.7	22
43	4,4â€²-(((1E,5E)-pentane-1,5-diylidene)bis(azanylylidene))bis(1-dodecylpyridin-1-ium) bromide as a novel corrosion inhibitor in an acidic solution (part I). Materials Science and Engineering C, 2020, 110, 110673.	7.3	22
44	Application of the Synthesized Novel 3,6,9,12,15,18,21-heptaoxatricosane-1,23-diyl bis(4-((4-(dimethylamino)benzylidene)amino)benzoate) as a Corrosion Inhibitor for Carbon Steel in Acidic Media. Journal of Dispersion Science and Technology, 2014, 35, 1289-1299.	2.4	19
45	Adsorption and Corrosion Performance of New Cationic Gemini Surfactants Derivatives of Fatty Amido Ethyl Aminium Chloride with Ester Spacer for Mild Steel in Acidic Solutions. Materials, 2020, 13, 2790.	2.9	19
46	Sulfidogenic-corrosion inhibitory effect of cationic monomeric and gemini surfactants: planktonic and sessile diversity. RSC Advances, 2016, 6, 42263-42278.	3.6	18
47	Influence of copper nanoparticles capped by cationic surfactant as modifier for steel anti-corrosion paints. Egyptian Journal of Petroleum, 2013, 22, 549-556.	2.6	17
48	Synthesis and characterization of polybenzoxazine/clay hybrid nanocomposites for UV light shielding and anti-corrosion coatings on mild steel. Journal of Polymer Research, 2021, 28, 1.	2.4	17
49	Appraisal of synthetic cationic Gemini surfactants as highly efficient inhibitors for carbon steel in the acidization of oil and gas wells: an experimental and computational approach. RSC Advances, 2022, 12, 17050-17064.	3.6	17
50	Synthesis and characterization of cationic surfactants in the preparation of organobentonite and study their effectiveness on the properties of styrene-butadiene rubber/bentonite composites. High Performance Polymers, 2013, 25, 115-125.	1.8	16
51	Detection of Heavy Metal Ions Using Synthesized Amino Thiol Surfactants Assembled on Gold Nanoparticles. Journal of Dispersion Science and Technology, 2014, 35, 175-184.	2.4	13
52	Chemical modification of rice husk by quaternized hexadecylpyridinium for removal of chromate oxyanions from aqueous solution. Environmental Technology and Innovation, 2015, 4, 110-122.	6.1	11
53	Enhancement of A Cationic Surfactant by Capping Nanoparticles: Synthesis, Characterization and Multiple Applications. Molecules, 2020, 25, 2007.	3.8	11
54	Synthesis and characterization of cationic gemini surfactant modified Naâ€“bentonite and its applications for rubber nanocomposites. Polymer Composites, 2017, 38, 396-403.	4.6	8

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55	Nanosilicon dioxide/o-phenylenediamine hybrid composite as a modifier for steel paints. Progress in Organic Coatings, 2013, 76, 827-834.	3.9	5
56	Innovative surfactant of Gemini-type for dissolution mitigation of steel in pickling HCl medium. Chinese Journal of Chemical Engineering, 2021, 34, 125-133.	3.5	3
57	Fundamental and Application of Surface Active Agents in Petroleum Industry as Corrosion Inhibitors. Petroleum Engineering, 2021, , 383-399.	1.0	0