Abdul Amir H Kadhum

List of Publications by Year
in descending order

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221	8,025	46984	64755
papers	citations	47 h-index	79 g-index

222	222	222	8693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites. Molecules, 2015, 20, 22833-22847.	1.7	487
2	Visible light photocatalytic activity of Fe3+-doped ZnO nanoparticle prepared via solâ€“gel technique. Chemosphere, 2013, 91, 1604-1611.	4.2	240
3	Additives in proton exchange membranes for low- and high-temperature fuel cell applications: A review. International Journal of Hydrogen Energy, 2019, 44, 6116-6135.	3.8	207
4	Green synthesis, antimicrobial and cytotoxic effects of silver nanoparticles using Eucalyptus chapmaniana leaves extract. Asian Pacific Journal of Tropical Biomedicine, 2013, 3, 58-63.	0.5	198
5	Electrochemical and quantum chemical calculations on 4,4-dimethyloxazolidine-2-thione as inhibitor for mild steel corrosion in hydrochloric acid. Journal of Molecular Structure, 2010, 969, 233-237.	1.8	193
6	On the inhibition of mild steel corrosion by 4-amino-5-phenyl-4H-1, 2, 4-trizole-3-thiol. Corrosion Science, 2010, 52, 526-533.	3.0	183
7	Advances in Photocatalytic CO2 Reduction with Water: A Review. Materials, 2017, 10, 629.	1.3	181
8	Experimental and theoretical study on the inhibition performance of triazole compounds for mild steel corrosion. Corrosion Science, 2010, 52, 3331-3340.	3.0	166
9	Recent progress in nitrogen-doped carbon and its composites as electrocatalysts for fuel cell applications. International Journal of Hydrogen Energy, 2013, 38, 9370-9386.	3.8	157
10	The effect of process parameters on the size of ZnO nanoparticles synthesized via the solâ€“gel technique. Journal of Alloys and Compounds, 2013, 550, 63-70.	2.8	156
11	The Antioxidant Activity of New Coumarin Derivatives. International Journal of Molecular Sciences, 2011, 12, 5747-5761.	1.8	130
12	Overview on nanostructured membrane in fuel cell applications. International Journal of Hydrogen Energy, 2011, 36, 3187-3205.	3.8	129
13	Nafion/silicon oxide/phosphotungstic acid nanocomposite membrane with enhanced proton conductivity. Journal of Membrane Science, 2009, 327, 32-40.	4.1	115
14	Synthesis and characterization of a novel organic corrosion inhibitor for mild steel in 1â€¯M hydrochloric acid. Results in Physics, 2018, 8, 728-733.	2.0	111
15	Molecular dynamics and quantum chemical calculation studies on 4,4-dimethyl-3-thiosemicarbazide as corrosion inhibitor in 2.5M H2SO4. Materials Chemistry and Physics, 2011, 129, 660-665.	2.0	110
16	Synergistic effect of potassium iodide with phthalazone on the corrosion inhibition of mild steel in 1.0 M HCl. Corrosion Science, 2011, 53, 3672-3677.	3.0	102
17	Synthesis and characterization of a novel eco-friendly corrosion inhibition for mild steel in 1â€‰M hydrochloric acid. Scientific Reports, 2016, 6, 19890.	1.6	101
18	The kinetics of polyphenol degradation during the drying of Malaysian cocoa beans. International Journal of Food Science and Technology, 2005, 40, 323-331.	1.3	98

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19	Coumarins: The Antimicrobial agents. Systematic Reviews in Pharmacy (discontinued), 2017, 8, 62-70.	0.6	98
20	Antifungal and Antioxidant Activities of Pyrrolidone Thiosemicarbazone Complexes. Bioinorganic Chemistry and Applications, 2012, 2012, 1-6.	1.8	97
21	Nafion/Pdâ€“SiO2 nanofiber composite membranes for direct methanol fuel cell applications. International Journal of Hydrogen Energy, 2013, 38, 9474-9483.	3.8	96
22	A comparative study of the corrosion inhibition of mild steel in sulphuric acid by 4,4-dimethyloxazolidine-2-thione. Corrosion Science, 2009, 51, 2393-2399.	3.0	95
23	Novel Corrosion Inhibitor for Mild Steel in HCl. Materials, 2014, 7, 662-672.	1.3	95
24	Inhibition of Mild Steel Corrosion in Hydrochloric Acid Solution by New Coumarin. Materials, 2014, 7, 4335-4348.	1.3	94
25	Antifungal Activities of New Coumarins. Molecules, 2012, 17, 5713-5723.	1.7	85
26	Antimicrobial and Antioxidant Activities of New Metal Complexes Derived from 3-Aminocoumarin. Molecules, 2011, 16, 6969-6984.	1.7	84
27	New Coumarin Derivative as an Eco-Friendly Inhibitor of Corrosion of Mild Steel in Acid Medium. Molecules, 2015, 20, 366-383.	1.7	84
28	The Impact of Halloysite on the Thermo-Mechanical Properties of Polymer Composites. Molecules, 2017, 22, 838.	1.7	82
29	Hydrogen purification using compact pressure swing adsorption system for fuel cell. International Journal of Hydrogen Energy, 2009, 34, 2771-2777.	3.8	81
30	Optimization of process parameters using D-optimal design for synthesis of ZnO nanoparticles via solâ€“gel technique. Journal of Industrial and Engineering Chemistry, 2013, 19, 99-105.	2.9	75
31	A Novel Hydrazinecarbothioamide as a Potential Corrosion Inhibitor for Mild Steel in HCl. Materials, 2013, 6, 1420-1431.	1.3	72
32	Sulphonamides as corrosion inhibitor: Experimental and DFT studies. Journal of Molecular Structure, 2017, 1138, 27-34.	1.8	72
33	Development of new corrosion inhibitor tested on mild steel supported by electrochemical study. Results in Physics, 2018, 8, 1260-1267.	2.0	71
34	Inhibition Effects of a Synthesized Novel 4-Aminoantipyrine Derivative on the Corrosion of Mild Steel in Hydrochloric Acid Solution together with Quantum Chemical Studies. International Journal of Molecular Sciences, 2013, 14, 11915-11928.	1.8	69
35	Inhibition of Mild Steel Corrosion in Sulfuric Acid Solution by New Schiff Base. Materials, 2014, 7, 787-804.	1.3	67
36	Novel technique for enhancement of diesel fuel: Impact of aqueous alumina nano-fluid on engine's performance and emissions. Case Studies in Thermal Engineering, 2017, 10, 611-620.	2.8	67

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37	Experimental and theoretical studies of benzoxazines corrosion inhibitors. Results in Physics, 2017, 7, 4013-4019.	2.0	66
38	Experimental and theoretical studies of Schiff bases as corrosion inhibitors. Chemistry Central Journal, 2018, 12, 7.	2.6	66
39	The Use of Umbelliferone in the Synthesis of New Heterocyclic Compounds. Molecules, 2011, 16, 6833-6843.	1.7	63
40	Coumarins as Potential Antioxidant Agents Complemented with Suggested Mechanisms and Approved by Molecular Modeling Studies. Molecules, 2016, 21, 135.	1.7	60
41	Impact of Sulfuric Acid Treatment of Halloysite on Physico-Chemic Property Modification. Materials, 2016, 9, 620.	1.3	59
42	Quantum chemical elucidation on corrosion inhibition efficiency of Schiff base: DFT investigations supported by weight loss and SEM techniques. International Journal of Low-Carbon Technologies, 2020, 15, 202-209.	1.2	58
43	Electrochemical Study on Newly Synthesized Chlorocurcumin as an Inhibitor for Mild Steel Corrosion in Hydrochloric Acid. Materials, 2013, 6, 5466-5477.	1.3	55
44	Improved membrane and electrode assemblies for proton exchange membrane fuel cells. Journal of Power Sources, 2003, 114, 195-202.	4.0	54
45	A review of studies on forced, natural and mixed heat transfer to fluid and nanofluid flow in an annular passage. Renewable and Sustainable Energy Reviews, 2014, 39, 835-856.	8.2	54
46	Performance of direct methanol fuel cell with a palladiumâ€“silica nanofibre/Nafion composite membrane. Energy Conversion and Management, 2013, 75, 718-726.	4.4	53
47	A review of copolymerization of green house gas carbon dioxide and oxiranes to produce polycarbonate. Journal of Cleaner Production, 2015, 102, 1-17.	4.6	53
48	Hydrogen Peroxide Scavenging Activity of Novel Coumarins Synthesized Using Different Approaches. PLoS ONE, 2015, 10, e0132175.	1.1	53
49	Edible lipids modification processes: A review. Critical Reviews in Food Science and Nutrition, 2017, 57, 48-58.	5.4	51
50	Experimental and theoretical study on the corrosion inhibition of mild steel by nonanedioic acid derivative in hydrochloric acid solution. Scientific Reports, 2022, 12, 4705.	1.6	50
51	Nitrogen-containing carbon nanotubes as cathodic catalysts for proton exchange membrane fuel cells. Diamond and Related Materials, 2012, 22, 12-22.	1.8	47
52	Inhibition of aluminum corrosion by phthalazinone and synergistic effect of halide ion in 1.0M HCl. Current Applied Physics, 2012, 12, 325-330.	1.1	47
53	Influence of nitrogen doping on carbon nanotubes towards the structure, composition and oxygen reduction reaction. International Journal of Hydrogen Energy, 2013, 38, 9421-9430.	3.8	46
54	Case study on solar water heating for flat plate collector. Case Studies in Thermal Engineering, 2018, 12, 666-671.	2.8	46

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55	Adsorption Kinetics of 4-Amino-5-Phenyl-4H-1, 2, 4-Triazole-3-Thiol on Mild Steel Surface. Portugaliae Electrochimica Acta, 2010, 28, 221-230.	0.4	46
56	Kinetic behavior of mild steel corrosion inhibition by 4-amino-5-phenyl-4H-1,2,4-trizole-3-thiol. Journal of the Taiwan Institute of Chemical Engineers, 2010, 41, 126-128.	2.7	44
57	Synergistic of a coumarin derivative with potassium iodide on the corrosion inhibition of aluminum alloy in 1.0 M H2SO4. Metals and Materials International, 2014, 20, 459-467.	1.8	44
58	Utilization of self-synthesized ZnO nanoparticles in MPR for industrial dye wastewater treatment using NF and UF membrane. Desalination and Water Treatment, 2015, 54, 944-955.	1.0	44
59	Novel macromolecules derived from coumarin: synthesis and antioxidant activity. Scientific Reports, 2015, 5, 11825.	1.6	43
60	Synthesis and corrosion inhibition application of NATN on mild steel surface in acidic media complemented with DFT studies. Results in Physics, 2018, 8, 1178-1184.	2.0	43
61	Synthesis, Characterization, and Corrosion Inhibition Potential of Novel Thiosemicarbazone on Mild Steel in Sulfuric Acid Environment. Coatings, 2019, 9, 729.	1.2	42
62	Effects of temperature and backpressure on the performance degradation of MEA in PEMFC. International Journal of Hydrogen Energy, 2015, 40, 10960-10968.	3.8	41
63	Regional landfills methane emission inventory in Malaysia. Waste Management and Research, 2011, 29, 863-873.	2.2	40
64	Effects of electron beam irradiation on mechanical properties and nanostructuralâ€“morphology of montmorillonite added polyvinyl alcohol composite. Composites Part B: Engineering, 2014, 63, 141-153.	5.9	40
65	Quantum chemical assessment of benzimidazole derivatives as corrosion inhibitors. Chemistry Central Journal, 2014, 8, 21.	2.6	40
66	Quantum chemical studies on corrosion inhibition for series of thio compounds on mild steel in hydrochloric acid. Journal of Industrial and Engineering Chemistry, 2012, 18, 551-555.	2.9	38
67	Nanofiltration of hazardous Congo red dye: Performance and flux decline analysis. Journal of Water Process Engineering, 2014, 4, 99-106.	2.6	38
68	A review on synthesis and characterization of solid acid materials for fuel cell applications. Journal of Power Sources, 2016, 322, 77-92.	4.0	38
69	Antioxidant and antimicrobial activities of novel quinazolinones. Medicinal Chemistry Research, 2014, 23, 236-242.	1.1	37
70	Electrochemical studies of novel corrosion inhibitor for mild steel in 1â€¯M hydrochloric acid. Results in Physics, 2018, 9, 978-981.	2.0	37
71	Synthesis, inhibition effects and quantum chemical studies of a novel coumarin derivative on the corrosion of mild steel in a hydrochloric acid solution. Chemistry Central Journal, 2016, 10, 23.	2.6	35
72	Application of Sn-activated carbon in pressure swing adsorption for purification of H2. Chemical Engineering Science, 2000, 55, 4745-4755.	1.9	34

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73	Hydrogen production using Clostridium saccharoperbutylacetonicum N1-4 (ATCC 13564). International Journal of Hydrogen Energy, 2008, 33, 7392-7396.	3.8	34
74	Gas chromatographic determination of eugenol in ethanol extract of cloves. Biomedical Applications, 1996, 679, 193-195.	1.7	33
75	Effect of Multipath Laser Shock Processing on Microhardness, Surface Roughness, and Wear Resistance of 2024-T3 Al Alloy. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	33
76	The Impact of Loading and Temperature on the Oxygen Reduction Reaction at Nitrogen-doped Carbon Nanotubes in Alkaline Medium. Electrochimica Acta, 2014, 129, 47-54.	2.6	33
77	Antioxidant Activities of 4-Methylumbelliferone Derivatives. PLoS ONE, 2016, 11, e0156625.	1.1	33
78	Simultaneous removal of AOX and COD from real recycled paper wastewater using GAC-SBBR. Journal of Environmental Management, 2013, 121, 80-86.	3.8	32
79	Case study on thermal impact of novel corrosion inhibitor on mild steel. Case Studies in Thermal Engineering, 2018, 12, 64-68.	2.8	31
80	Performance optimisation of PEM fuel cell during MEA fabrication. Energy Conversion and Management, 2004, 45, 3239-3249.	4.4	30
81	Synthesis and characterization of polyesters derived from glycerol, azelaic acid, and succinic acid. Green Chemistry Letters and Reviews, 2015, 8, 31-38.	2.1	30
82	An investigation of LiNbO3 photocatalyst coating on concrete surface for improving indoor air quality. Construction and Building Materials, 2014, 54, 348-353.	3.2	29
83	Preparation, characterization, and theoretical studies of azelaic acid derived from oleic acid by use of a novel ozonolysis method. Research on Chemical Intermediates, 2012, 38, 659-668.	1.3	28
84	Experimental studies on inhibition of mild steel corrosion by novel synthesized inhibitor complemented with quantum chemical calculations. Results in Physics, 2018, 10, 291-296.	2.0	28
85	Photocatalytic degradation of chlorophenols under direct solar radiation in the presence of ZnO catalyst. Research on Chemical Intermediates, 2013, 39, 1981-1996.	1.3	27
86	Synthesis, characterization and gravimetric studies of novel triazole-based compound. International Journal of Low-Carbon Technologies, 2020, 15, 164-170.	1.2	27
87	Curcuminoids as antioxidants and theoretical study of stability of curcumin isomers in gaseous state. Research on Chemical Intermediates, 2013, 39, 4047-4059.	1.3	25
88	Characterization of Î±-tocopherol as interacting agent in polyvinyl alcoholâ€“starch blends. Carbohydrate Polymers, 2013, 98, 1281-1287.	5.1	25
89	Adsorption isotherm mechanism of amino organic compounds as mild steel corrosion inhibitors by electrochemical measurement method. Central South University, 2010, 17, 34-39.	0.5	24
90	The role of 4-amino-5-phenyl-4H-1,2,4-triazole-3-thiol in the inhibition of nickelâ€“aluminum bronze alloy corrosion: electrochemical and DFT studies. Research on Chemical Intermediates, 2012, 38, 91-103.	1.3	24

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91	Heat Transfer Enhancement of Laminar Nanofluids Flow in a Circular Tube Fitted with Parabolic-Cut Twisted Tape Inserts. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	24
92	Photocatalytic degradation of organic pollutants over visible light active plasmonic Ag nanoparticle loaded Ag2SO3 photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 375, 191-200.	2.0	24
93	Corrosion Inhibition of Mild Steel in Strong Acid Environment by 4-((5,5-dimethyl-3-oxocyclohex-1-en-1-yl)amino)benzenesulfonamide. Tribology in Industry, 2020, 42, 89-101.	0.5	24
94	Synthesis and Antioxidant Activities of Novel 5-Chlorocurcumin, Complemented by Semiempirical Calculations. Bioinorganic Chemistry and Applications, 2013, 2013, 1-7.	1.8	23
95	Solar photocatalytic degradation of 2-chlorophenol with ZnO nanoparticles: optimisation with D-optimal design and study of intermediate mechanisms. Environmental Science and Pollution Research, 2017, 24, 2804-2819.	2.7	23
96	Outdoor Performance Analysis of a Photovoltaic Thermal (PVT) Collector with Jet Impingement and Compound Parabolic Concentrator (CPC). Materials, 2017, 10, 888.	1.3	23
97	Unique Halloysite Nanotubesâ€“Polyvinyl Alcoholâ€“Polyvinylpyrrolidone Composite Complemented with Physicoâ€“Chemical Characterization. Polymers, 2017, 9, 207.	2.0	23
98	Bio-Hydrogen Production using a Two-Stage Fermentation Process. Pakistan Journal of Biological Sciences, 2009, 12, 1462-1467.	0.2	23
99	Optimization of hot pressing parameters in membrane electrode assembly fabrication by response surface method. International Journal of Hydrogen Energy, 2013, 38, 9484-9493.	3.8	22
100	Artificial Photosynthesis using LiNbO‹sub›3‹/sub›as Photocatalyst for Sustainable and Environmental Friendly Construction and Reduction of Global Warming: A Review. Catalysis Reviews - Science and Engineering, 2014, 56, 175-186.	5.7	22
101	Terephthalohydrazide and isophthalo- hydrazide as new corrosion inhibitors for mild steel in hydrochloric acid: Experimental and theoretical approaches. Koroze A Ochrana Materialu, 2021, 65, 12-22.	0.4	22
102	Novel Pyranopyrazoles: Synthesis and Theoretical Studies. Molecules, 2012, 17, 10377-10389.	1.7	21
103	Detection of secreted antimicrobial peptides isolated from cell-free culture supernatant of Paenibacillus alvei AN5. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 571-579.	1.4	21
104	Surface Improvement of Halloysite Nanotubes. Applied Sciences (Switzerland), 2017, 7, 291.	1.3	21
105	The effect of impregnation of activated carbon with SnCl2.2H2O on its porosity, surface composition and CO gas adsorption. Carbon, 2002, 40, 1929-1936.	5.4	20
106	Numerical Investigation of Heat Transfer and Friction Factor Characteristics in a Circular Tube Fitted with V-Cut Twisted Tape Inserts. Scientific World Journal, The, 2013, 2013, 1-8.	0.8	20
107	Photostabilizing Efficiency of PVC in the Presence of Schiff Bases as Photostabilizers. Molecules, 2015, 20, 19886-19899.	1.7	20
108	Manufacture of Contact Lens of Nanoparticle-Doped Polymer Complemented with ZEMAX. Nanomaterials, 2020, 10, 2028.	1.9	20

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109	Inhibition of Aluminum Alloy Corrosion in 0.5ÂM Nitric Acid Solution by 4-4-Dimethyloxazolidine-2-thione. Journal of Materials Engineering and Performance, 2011, 20, 394-398.	1.2	19
110	Synthesis and Characterization of Some New 4-Hydroxy-coumarin Derivatives. Molecules, 2014, 19, 11791-11799.	1.7	19
111	Effect of silica on the thermal behaviour and ionic conductivity of mixed salt solid acid composites. Journal of Alloys and Compounds, 2017, 690, 896-902.	2.8	19
112	Methane and carbon dioxide emissions from Sungai Sedu open dumping during wet season in Malaysia. Ecological Engineering, 2012, 49, 254-263.	1.6	18
113	Characterization of electrodes and performance tests on MEAs with varying platinum content and under various operational conditions. International Journal of Hydrogen Energy, 2013, 38, 9431-9437.	3.8	18
114	Study on the electronic properties and molecule adsorption of W 18 O 49 Ânanowires as a catalyst support in the cathodes of direct methanol fuel cells. Journal of Power Sources, 2015, 288, 461-472.	4.0	17
115	Optimizing Injection Molding Parameters of Different Halloysites Type-Reinforced Thermoplastic Polyurethane Nanocomposites via Taguchi Complemented with ANOVA. Materials, 2016, 9, 947.	1.3	17
116	Effect of Starch Loading on the Thermo-Mechanical and Morphological Properties of Polyurethane Composites. Materials, 2017, 10, 777.	1.3	17
117	Poly(methyl methacrylate)/SIO2 hybrid membranes: Effect of solvents on structural and thermal properties. Journal of Applied Polymer Science, 2006, 99, 3163-3171.	1.3	16
118	Modeling of Breakthrough Curves for Adsorption of Propane, n-Butane, and Iso-Butane Mixture on 5A Molecular Sieve Zeolite. Transport in Porous Media, 2011, 86, 215-228.	1.2	16
119	Photodegradation of chlorophenolic compounds using zinc oxide as photocatalyst: experimental and theoretical studies. Research on Chemical Intermediates, 2012, 38, 995-1005.	1.3	16
120	Quantum chemical calculation for the inhibitory effect of compounds. Journal of Structural Chemistry, 2013, 54, 301-308.	0.3	16
121	Thermodynamic and Theoretical Study of the Preparation of New Buckyballs from Corannulene, Coronene, and Circulene. Journal of Nanomaterials, 2013, 2013, 1-8.	1.5	16
122	Comparative data on corrosion protection of mild steel in HCl using two new thiazoles. Data in Brief, 2022, 40, 107838.	0.5	16
123	Effect of surfactants in synthesis of CsH2PO4 as protonic conductive membrane. Bulletin of Materials Science, 2011, 34, 759-765.	0.8	15
124	Evaluation of methane generation rate and potential from selected landfills in Malaysia. International Journal of Environmental Science and Technology, 2014, 11, 377-384.	1.8	15
125	Estimation of Methane Emission from Landfills in Malaysia using the IPCC 2006 FOD Model. Journal of Applied Sciences, 2010, 10, 1603-1609.	0.1	15
126	Hydrogenation of d-fructose over activated charcoal supported platinum catalyst. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 114-119.	2.7	14

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127	Prediction of multi component equilibrium isotherms for light hydrocarbons adsorption on 5A zeolite. Fluid Phase Equilibria, 2012, 313, 165-170.	1.4	14
128	Empirical gas emission and oxidation measurement at cover soil of dumping site: example from Malaysia. Environmental Monitoring and Assessment, 2013, 185, 4919-4932.	1.3	14
129	<scp>CFD</scp> Simulation of Heat Transfer Augmentation in a Circular Tube Fitted with Alternative Axis Twisted Tape in Laminar Flow under a Constant Heat Flux. Heat Transfer - Asian Research, 2014, 43, 384-396.	2.8	14
130	Synthesis of new coumarins complemented by quantum chemical studies. Research on Chemical Intermediates, 2016, 42, 3905-3918.	1.3	14
131	In Situ Controlled Surface Microstructure of 3D Printed Ti Alloy to Promote Its Osteointegration. Materials, 2019, 12, 815.	1.3	14
132	Gravimetrical, theoretical, and surface morphological investigations of corrosion inhibition effect of 4-(benzoimidazole-2-yl) pyridine on mild steel in hydrochloric acid. Koroze A Ochrana Materialu, 2020, 64, 122-130.	0.4	14
133	Inhibition of mild steel corrosion in hydrochloric acid environment by 1-amino-2-mercapto-5-(4-(pyrrol-1-yl)phenyl)-1,3,4-triazole. South African Journal of Chemical Engineering, 2022, 39, 42-51.	1.2	14
134	Batch adsorption tests of phenol in soils. Bulletin of Engineering Geology and the Environment, 2003, 62, 251-257.	1.6	13
135	Chlorophenols in Tigris River and Drinking Water of Baghdad, Iraq. Bulletin of Environmental Contamination and Toxicology, 2011, 87, 106-112.	1.3	13
136	Corrosion Inhibition of Mild Steel in 1.0 M HCl by Amino Compound: Electrochemical and DFT Studies. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3379-3386.	1.1	13
137	Enhancement of the Wear Resistance and Microhardness of Aluminum Alloy by Nd:YaG Laser Treatment. Scientific World Journal, The, 2014, 2014, 1-5.	0.8	13
138	Temperature-dependent diffusion coefficient of soluble substances during ethanol extraction of clove. JAOCS, Journal of the American Oil Chemists' Society, 1996, 73, 603-610.	0.8	12
139	Adsorption of carbon monoxide on activated carbonâ€“tin ligand. Journal of Molecular Structure, 2000, 550-551, 511-519.	1.8	12
140	Applications of the Box-Wilson Design Model for Bio-hydrogen Production using Clostridium saccharoperbutylacetonicum N1-4 (ATCC 13564). Pakistan Journal of Biological Sciences, 2010, 13, 674-682.	0.2	12
141	Corrosion Inhibition of Copper-nickel Alloy: Experimental and Theoretical Studies. Journal of the Korean Chemical Society, 2012, 56, 406-415.	0.2	12
142	Separation and identification of eugenol in ethanol extract of cloves by reversed-phase high-performance liquid chromatography. JAOCS, Journal of the American Oil Chemists' Society, 1995, 72, 1231-1233.	0.8	11
143	Fabrication of gas diffusion layer based on xâ€“y robotic spraying technique for proton exchange membrane fuel cell application. Energy Conversion and Management, 2009, 50, 1419-1425.	4.4	11
144	Galvanic Corrosion of Steelâ€“Brass Couple in Petroleum Waste Water in Presence of a Green Corrosion Inhibitor: Electrochemical, Kinetics, and Mathematical View. Journal of Failure Analysis and Prevention, 2018, 18, 1300-1310.	0.5	11

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145	Elastic Polyesters from Glycerol and Azelaic Acid. Advanced Materials Research, 2011, 233-235, 2571-2575.	0.3	10
146	Inhibition of galvanic corrosion by 4-amino-5-phenyl-4H-1, 2, 4-trizole-3-thiol. International Journal of Surface Science and Engineering, 2011, 5, 226.	0.4	10
147	Direct Acetylation and Determination of Chlorophenols in Aqueous Samples by Gas Chromatography Coupled with an Electron-Capture Detector. Journal of Chromatographic Science, 2012, 50, 564-568.	0.7	10
148	Theoretical Study for the Preparation of Sub-Carbon Nano Tubes from the Cyclic Polymerization Reaction of Two Molecules from Corannulene, Coronene and Circulene Aromatic Compounds. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2453-2457.	0.4	10
149	Synthesis of Vanadium Pentoxide Nanoparticles as Catalysts for the Ozonation of Palm Oil. Ozone: Science and Engineering, 2016, 38, 36-41.	1.4	10
150	MAFRAMâ€"A new fate and risk assessment methodology for non-volatile organic chemicals. Journal of Hazardous Materials, 2010, 181, 1080-1087.	6.5	9
151	Synthesis, antimicrobial and antioxidant activities of 5-((2-oxo-2H-chromen-7-yloxy)methyl)-1,3,4-thiadiazol-2(3H)-one derived from umbelliferone. Chemistry of Natural Compounds, 2013, 48, 950-954.	0.2	9
152	Experimental and Numerical Investigations of Heat Transfer Characteristics for Impinging Swirl Flow. Advances in Mechanical Engineering, 2014, 6, 631081.	0.8	9
153	Inhibitive impacts extract of Citrus aurantium leaves of carbon steel in corrosive media. Green Chemistry Letters and Reviews, 2018, 11, 559-566.	2.1	9
154	Synthesis and characterization of erbium trioxide nanoparticles as photocatalyzers for degradation of methyl orange dye. Drinking Water Engineering and Science, 2019, 12, 15-21.	0.8	9
155	Prediction of breakthrough curves for light hydrocarbons adsorption on 4A molecular sieve zeolite. Korean Journal of Chemical Engineering, 2010, 27, 752-758.	1.2	8
156	Effect of hydraulic retention time (HRT) on pentachlorophenol (PCP) and COD removal in a pilot GAC-SBBR system for the post-treatment of recycled paper mill wastewater. Desalination and Water Treatment, 2012, 48, 50-59.	1.0	8
157	CFD Simulation of Heat Transfer and Friction Factor Augmentation in a Circular Tube Fitted with Elliptic-Cut Twisted Tape Inserts. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	8
158	CFD Analysis of Heat Transfer and Friction Factor Characteristics in a Circular Tube Fitted with Quadrant-Cut Twisted Tape Inserts. Mathematical Problems in Engineering, 2013, 2013, 1-8.	0.6	8
159	Isolation and identification of a new intracellular antimicrobial peptide produced by Paenibacillus alvei AN5. World Journal of Microbiology and Biotechnology, 2014, 30, 1377-1385.	1.7	8
160	Optimization of Solar Photocatalytic Degradation of Chloroxylenol Using TiO2, Er3+/TiO2, and Ni2+/TiO2 via the Taguchi Orthogonal Array Technique. Catalysts, 2016, 6, 163.	1.6	8
161	New environmental friendly corrosion inhibitor of mild steel in hydrochloric acid solution: Adsorption and thermal studies. Cogent Engineering, 2020, 7, 1826077.	1.1	8
162	Corrosion inhibition of mild steel in hydrochloric acid environment using thiadiazole derivative: Weight loss, thermodynamics, adsorption and computational investigations. South African Journal of Chemical Engineering, 2022, 41, 244-252.	1.2	8

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163	CFD analysis of heat transfer and friction factor charaterstics in a circular tube fitted with horizontal baffles twisted tape inserts. IOP Conference Series: Materials Science and Engineering, 2013, 50, 012034.	0.3	6
164	Review on Biopolymer Membranes for Fuel Cell Applications. Applied Mechanics and Materials, 0, 291-294, 614-617.	0.2	6
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