

Dhanaraj Gopi

List of Publications by Year in descending order

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134
papers

3,696
citations

94433

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139
docs citations

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times ranked

2982
citing authors

#	ARTICLE	IF	CITATIONS
1	Current-driven magnetization reversal dynamics and breather-like EM soliton propagation in biaxial anisotropic weak ferromagnetic nanowire. <i>Nonlinear Dynamics</i> , 2022, 107, 2667.	5.2	0
2	Multifunctional crab shell derived hydroxyapatite/metal oxide/polyhydroxybutyrate composite coating on 316L SS for biomedical applications. <i>Materials Letters</i> , 2022, 313, 131701.	2.6	16
3	Biogenic synthesis of hydroxyapatite/Musa paradisiaca floral sap for biomedical applications. <i>Materials Letters</i> , 2022, 312, 131702.	2.6	8
4	<i>Calotropis Gigantea</i> Fiber”€A Biogenic Reinforcement Material for Europium Substituted Hydroxyapatite/Poly(3,4-propylenedioxythiophene) Matrix: A Novel Ternary Composite for Biomedical Applications. <i>ACS Omega</i> , 2022, 7, 6024-6034.	3.5	4
5	A preliminary study on the synthesis of biogenic derived hydroxyapatite /medicinal plant extracts composite for potential bone tissue engineering applications. <i>Materials Today: Proceedings</i> , 2022, 51, 1817-1820.	1.8	2
6	Biocomposite coating of Wrightia tinctoria root bark fiber reinforced samarium substituted hydroxyapatite/ polypyrrole on titanium for potential orthopedic applications. <i>Materials Chemistry and Physics</i> , 2022, 289, 126447.	4.0	4
7	A simple salt mediated electrooxidative method for the synthesis of benzaldehydes from benzyl alcohols. <i>Synthetic Communications</i> , 2022, 52, 1268-1278.	2.1	3
8	Biowasteâ€derived hydroxyapatite reinforced with polyvinyl pyrrolidone/aloevera composite for biomedical applications. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 221-234.	2.1	12
9	Enhancement of biocompatibility by coatings. , 2021, , 463-490.		0
10	Structural, morphological and biological evaluations of cerium incorporated hydroxyapatite solâ€gel coatings on Tiâ€6Alâ€4V for orthopaedic applications. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1319-1338.	5.8	24
11	Microwave assisted synthesis of core-shell Ni-Co/graphene nano sheets and their catalytic activity for methanol electro-oxidation. <i>Materials Today: Proceedings</i> , 2021, 51, 1797-1797.	1.8	4
12	Novel Strategy for Gallium-Substituted Hydroxyapatite/<i>Pergularia daemia</i> Fiber Extract/Poly(<i>N</i>-vinylcarbazole) Biocomposite Coating on Titanium for Biomedical Applications. <i>ACS Omega</i> , 2021, 6, 22537-22550.	3.5	11
13	Electro-oxidation of alcohols - Recent advancements in synthesis and applications of palladium core-shell nanostructured model catalysts. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111211.	16.4	23
14	Valorization of biowaste derived nanophase yttrium substituted hydroxyapatite/citrate cellulose/ opuntia mucilage biocomposite: A template assisted synthesis for potential biomedical applications. <i>Materials Chemistry and Physics</i> , 2021, 273, 125144.	4.0	8
15	A comparative study of naturally and synthetically derived bioceramics for biomedical applications. <i>Materials Today: Proceedings</i> , 2020, 26, 3600-3603.	1.8	7
16	Fabrication of zinc substituted hydroxyapatite/cellulose nano crystals biocomposite from biowaste materials for biomedical applications. <i>Materials Today: Proceedings</i> , 2020, 26, 3583-3587.	1.8	5
17	Dynamic instability in neuronal microtubules. <i>Materials Today: Proceedings</i> , 2020, 26, 3552-3558.	1.8	5
18	Implication of lanthanum substituted hydroxyapatite/poly(n-methyl pyrrole) bilayer coating on titanium for orthopedic applications. <i>Materials Today: Proceedings</i> , 2020, 26, 3526-3530.	1.8	11

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19	Multifunctional halloysite nanotube based composite coatings on titanium as metal implant for orthopedic applications. <i>Composites Part C: Open Access</i> , 2020, 3, 100077.	3.2	4
20	An innovative <i>Azadirachta indica</i> gum-mediated synthesis of cocoon-shaped nano-AgHAp from <i>Lamellidens marginalis</i> shells. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2008-2016.	2.1	8
21	Physicochemical and biological behaviour of biogenic derived hydroxyapatite and carboxymethyl cellulose/sodium alginate biocomposite coating on Ti6Al4V alloy for biomedical applications. <i>Materials Chemistry and Physics</i> , 2020, 254, 123455.	4.0	25
22	Halloysite nanotubes strengthened hydroxyapatite/biopolymer composite coating on titanium for implant applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
23	Development of asymmetric device using $\text{Co}_3(\text{PO}_4)_2$ as a positive electrode for energy storage application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7435-7446.	2.2	43
24	Electrochemical and photocatalytic investigation of nickel oxide for energy storage and wastewater treatment. <i>Research on Chemical Intermediates</i> , 2018, 44, 5653-5667.	2.7	24
25	Localized discrete breather modes in neuronal microtubules. <i>Nonlinear Dynamics</i> , 2017, 88, 2013-2033.	5.2	21
26	Carbon Nanofiber/Polycaprolactone/Mineralized Hydroxyapatite Nanofibrous Scaffolds for Potential Orthopedic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6342-6355.	8.0	51
27	Propagation of electromagnetic soliton in a spin polarized current driven weak ferromagnetic nanowire. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 441, 660-671.	2.3	6
28	Loss-less propagation, elastic and inelastic interaction of electromagnetic soliton in an anisotropic ferromagnetic nanowire. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 51, 50-65.	3.3	4
29	Sonochemical synthesis of nanostructured nickel hydroxide as an electrode material for improved electrochemical energy storage application. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 416-423.	4.4	54
30	Electrochemical synthesis and characterization of cubic magnetite nanoparticle in aqueous ferrous perchlorate medium. <i>Arabian Journal of Chemistry</i> , 2016, 9, S829-S834.	4.9	15
31	Chemical and green routes for the synthesis of multifunctional pure and substituted nanohydroxyapatite for biomedical applications. , 2016, , 485-521.		7
32	Perturbed soliton excitations of Rao-dust Alfvén waves in magnetized dusty plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	3
33	Tailoring the Sm/Gd-Substituted Hydroxyapatite Coating on Biomedical AISI 316L SS: Exploration of Corrosion Resistance, Protein Profiling, Osteocompatibility, and Osteogenic Differentiation for Orthopedic Implant Applications. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6331-6344.	3.7	46
34	Propagation of envelope bright breather coupled wave modes in Ablowitz-Ladik chains. <i>Applied Mathematical Modelling</i> , 2016, 40, 8139-8155.	4.2	3
35	Fabrication of Minerals Substituted Porous Hydroxyapatite/Poly(3,4-ethylenedioxy) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 11 Its Antibacterial and Biological Activities for Orthopedic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12404-12421.	8.0	31
36	Propagation of electromagnetic solitons in an antiferromagnetic spinladder medium. <i>Journal of Electromagnetic Waves and Applications</i> , 2016, 30, 740-766.	1.6	19

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37	Development of zinc-halloysite nanotube/minerals substituted hydroxyapatite bilayer coatings on titanium alloy for orthopedic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 511, 357-365.	4.7	32
38	Magnetization reversal in a site-dependent anisotropic Heisenberg ferromagnet under electromagnetic wave propagation. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2016, 19, 80-90.	1.0	2
39	HER2 Targeted Breast Cancer Therapy with Switchable "Off/On" Multifunctional "Smart" Magnetic Polymer Core-Shell Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2262-2279.	8.0	46
40	Modulational instability and nano-scale energy localization in ferromagnetic spin chain with higher order dispersive interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 404, 91-118.	2.3	35
41	Nonlinear nano-scale localized breather modes in a discrete weak ferromagnetic spin lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 394-405.	2.3	51
42	Energy transport mechanism in the form of proton soliton in a one-dimensional hydrogen-bonded polypeptide chain. <i>Journal of Biological Physics</i> , 2016, 42, 9-31.	1.5	4
43	Synthesis of Pure and Substituted Hydroxyapatite Nanoparticles by Cost Effective Facile Methods. , 2016, , 167-190.		1
44	Influence of ionic substitution in improving the biological property of carbon nanotubes reinforced hydroxyapatite composite coating on titanium for orthopedic applications. <i>Ceramics International</i> , 2015, 41, 5454-5463.	4.8	47
45	Opuntia ficus indica peel derived pectin mediated hydroxyapatite nanoparticles: Synthesis, spectral characterization, biological and antimicrobial activities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 141, 135-143.	3.9	48
46	Corrosion inhibition by benzotriazole derivatives and sodium dodecyl sulphate as corrosion inhibitors for copper in ground water at different temperatures. <i>Surface and Interface Analysis</i> , 2015, 47, 618-625.	1.8	24
47	Synthesis of Pure and Substituted Hydroxyapatite Nanoparticles by Cost Effective Facile Methods. , 2015, , 1-20.		0
48	Fabrication of divalent ion substituted hydroxyapatite/gelatin nanocomposite coating on electron beam treated titanium: mechanical, anticorrosive, antibacterial and bioactive evaluations. <i>RSC Advances</i> , 2015, 5, 47341-47352.	3.6	40
49	Fabrication of a pH responsive DOX conjugated PEGylated palladium nanoparticle mediated drug delivery system: an in vitro and in vivo evaluation. <i>RSC Advances</i> , 2015, 5, 44998-45014.	3.6	57
50	Ball flower like manganese, strontium substituted hydroxyapatite/cerium oxide dual coatings on the AZ91 Mg alloy with improved bioactive and corrosion resistance properties for implant applications. <i>RSC Advances</i> , 2015, 5, 27402-27411.	3.6	35
51	Single walled carbon nanotubes reinforced mineralized hydroxyapatite composite coatings on titanium for improved biocompatible implant applications. <i>RSC Advances</i> , 2015, 5, 36766-36778.	3.6	51
52	Smart rose flower like bioceramic/metal oxide dual layer coating with enhanced anti-bacterial, anti-cancer, anti-corrosive and biocompatible properties for improved orthopedic applications. <i>RSC Advances</i> , 2015, 5, 85831-85844.	3.6	15
53	Development of poly(3,4-ethylenedioxythiophene-co-indole-5-carboxylic acid) co-polymer coatings on passivated low-nickel stainless steel for enhanced corrosion resistance in the sulphuric acid medium. <i>Applied Surface Science</i> , 2015, 357, 122-130.	6.1	27
54	Collision and propagation of electromagnetic solitons in an antiferromagnetic spin ladder medium. <i>Applied Mathematics and Computation</i> , 2015, 251, 643-668.	2.2	8

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55	Shape changing nonlocal molecular deformations in a nematic liquid crystal system. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2015, 18, 29-45.	1.0	2
56	Novel malic acid mediated green route for the synthesis of hydroxyapatite particles and their spectral characterization. Ceramics International, 2015, 41, 3116-3127.	4.8	16
57	Evaluation of biodegradability of surface treated AZ91 magnesium alloy in SBF solution. Journal of Industrial and Engineering Chemistry, 2015, 23, 218-227.	5.8	30
58	Development of Ce ³⁺ /Eu ³⁺ Dual-Substituted Hydroxyapatite Coating on Surgical Grade Stainless Steel for Improved Antimicrobial and Bioactive Properties. Industrial & Engineering Chemistry Research, 2014, 53, 20145-20153.	3.7	38
59	Oscillating multidromion excitations in higher-dimensional nonlinear lattice with intersite and external on-site potentials using symbolic computation. Chinese Physics B, 2014, 23, 010307.	1.4	1
60	Propagation of kink-antikink pair along microtubules as a control mechanism for polymerization and depolymerization processes. Chinese Physics B, 2014, 23, 098703.	1.4	14
61	Corrosion and Corrosion Inhibition of High Strength Low Alloy Steel in 2.0% M Sulfuric Acid Solutions by 3-Amino-1,2,3-triazole as a Corrosion Inhibitor. Journal of Chemistry, 2014, 2014, 1-8.	1.9	24
62	Corrosion Protection Behavior of Poly(N-(p-bromophenyl)-2-methacrylamide-co-ethyl methacrylate) Coatings on Low Nickel Stainless Steel. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 820-830.	3.4	1
63	Development of strontium and magnesium substituted porous hydroxyapatite/poly(3,4-ethylenedioxythiophene) coating on surgical grade stainless steel and its bioactivity on osteoblast cells. Colloids and Surfaces B: Biointerfaces, 2014, 114, 234-240.	5.0	56
64	In vitro biological performance of minerals substituted hydroxyapatite coating by pulsed electrodeposition method. Materials Chemistry and Physics, 2014, 144, 75-85.	4.0	77
65	Synthesis and spectral characterization of silver/magnesium co-substituted hydroxyapatite for biomedical applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 127, 286-291.	3.9	100
66	Novel banana peel pectin mediated green route for the synthesis of hydroxyapatite nanoparticles and their spectral characterization. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 589-597.	3.9	124
67	Investigation of anticorrosive, antibacterial and in vitro biological properties of a sulphonated poly(etheretherketone)/strontium, cerium co-substituted hydroxyapatite composite coating developed on surface treated surgical grade stainless steel for orthopedic applications. RSC Advances, 2014, 4, 61525-61536.	3.6	51
68	Evaluation of the mechanical and corrosion protection performance of electrodeposited hydroxyapatite on the high energy electron beam treated titanium alloy. Journal of Alloys and Compounds, 2014, 616, 498-504.	5.5	13
69	Carbon Nanotubes/Carboxymethyl Chitosan/Mineralized Hydroxyapatite Composite Coating on Ti-6Al-4V Alloy for Improved Mechanical and Biological Properties. Industrial & Engineering Chemistry Research, 2014, 53, 7660-7669.	3.7	45
70	Electrodeposition of a porous strontium-substituted hydroxyapatite/zinc oxide duplex layer on AZ91 magnesium alloy for orthopedic applications. Journal of Materials Chemistry B, 2014, 2, 5531.	5.8	42
71	Experimental and theoretical investigations on the inhibition of mild steel corrosion in the ground water medium using newly synthesised bipodal and tripodal imidazole derivatives. Materials Chemistry and Physics, 2014, 147, 572-582.	4.0	22
72	Investigation on corrosion protection and mechanical performance of minerals substituted hydroxyapatite coating on HELCDEB-treated titanium using pulsed electrodeposition method. RSC Advances, 2014, 4, 34751-34759.	3.6	43

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73	Corrosion and Corrosion Inhibition of Mild Steel in Groundwater at Different Temperatures by Newly Synthesized Benzotriazole and Phosphono Derivatives. Industrial & Engineering Chemistry Research, 2014, 53, 4286-4294.	3.7	56
74	Strontium, cerium co-substituted hydroxyapatite nanoparticles: Synthesis, characterization, antibacterial activity towards prokaryotic strains and in vitro studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 451, 172-180.	4.7	111
75	Collision of electromagnetic solitons in a weak ferromagnetic medium. Journal of Magnetism and Magnetic Materials, 2014, 355, 37-50.	2.3	19
76	Nonlinear refractive index induced collision and propagation of nematicons. Journal of Molecular Liquids, 2014, 197, 142-151.	4.9	8
77	Breather-like director reorientations in a nematic liquid crystal with nonlocal nonlinearity. Wave Motion, 2014, 51, 476-488.	2.0	5
78	Electrochemical synthesis of poly(indole-co-thiophene) on low-nickel stainless steel and its anticorrosive performance in 0.5%mol ¹ /sup>H ₂ SO ₄ /scp>. Polymer International, 2014, 63, 280-289.	3.1	15
79	Development of carbon nanotubes reinforced hydroxyapatite composite coatings on titanium by electrodeposition method. Corrosion Science, 2013, 73, 321-330.	6.6	102
80	Synthesis, characterization, and electrochemical evaluation of anti-corrosive performance of poly((N-methacryloyloxymethyl) benzotriazole-co-N-vinylpyrrolidone) coatings. Journal of Applied Electrochemistry, 2013, 43, 1043-1054.	2.9	13
81	Hydroxyapatite coating on selectively passivated and sensitively polymer-protected surgical grade stainless steel. Journal of Applied Electrochemistry, 2013, 43, 331-345.	2.9	20
82	Breather-like protonic tunneling in a discrete hydrogen bonded chain with heavy-ionic interactions. Physica Scripta, 2013, 87, 035007.	2.5	17
83	Influence of surfactant concentration on nanohydroxyapatite growth. Bulletin of Materials Science, 2013, 36, 799-805.	1.7	22
84	Enhanced corrosion resistance of strontium hydroxyapatite coating on electron beam treated surgical grade stainless steel. Applied Surface Science, 2013, 286, 83-90.	6.1	37
85	Nano breathers and molecular dynamics simulations in hydrogen-bonded chains. Journal of Biological Physics, 2013, 39, 15-35.	1.5	19
86	Corrosion protection performance of porous strontium hydroxyapatite coating on polypyrrole coated 316L stainless steel. Colloids and Surfaces B: Biointerfaces, 2013, 107, 130-136.	5.0	84
87	Synthesis and spectroscopic investigations of hydroxyapatite using a green chelating agent as template. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 104, 292-299.	3.9	39
88	Development of lotus-like hydroxyapatite coating on HELCDEB treated titanium by pulsed electrodeposition. Materials Letters, 2013, 105, 216-219.	2.6	34
89	A novel green template assisted synthesis of hydroxyapatite nanorods and their spectral characterization. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 107, 196-202.	3.9	55
90	Adsorption and inhibition properties of mild steel corrosion in ground water medium by 1-(4-methoxy) Tj ETQq0 0 0 rgBT /Overlock 1 2013, 45, 823-829.	1.8	4

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91	The propagation of shape changing soliton in a nonuniform nonlocal media. Chinese Physics B, 2013, 22, 084209.	1.4	6
92	Modulational instability of optically induced nematicon propagation. Chinese Physics B, 2013, 22, 129401.	1.4	5
93	Effect of Varying Dzyaloshinskiiâ€”Moriya Interaction on the Bistable Nano-Scale Soliton Switching. Communications in Theoretical Physics, 2013, 60, 658-662.	2.5	3
94	Optically induced switching of nematic deformations. Physica Scripta, 2013, 88, 065015.	2.5	4
95	Propagation of an electromagnetic soliton in an anisotropic biquadratic ferromagnetic medium. Chinese Physics B, 2013, 22, 030512.	1.4	9
96	Electrochemical and Surface Characterization Studies of New Triazole Derivatives on Mild Steel. Asian Journal of Chemistry, 2013, 25, 957-961.	0.3	0
97	Propagation of proton solitons in hydrogen-bonded chains with an asymmetric double-well potential. Physica Scripta, 2012, 86, 025403.	2.5	14
98	Solitonic transport of energyâ€”momentum in a deformed magnetic medium. Physica Scripta, 2012, 85, 035007.	2.5	18
99	Amino acid-assisted synthesis of strontium hydroxyapatite bone cement by a soft solution freezing method. Bulletin of Materials Science, 2012, 35, 1195-1199.	1.7	11
100	Corrosion protection performance of ceriaâ€”copolymer bilayer coating on low nickel stainless steel in 0.5â€”M H ₂ SO ₄ medium. Surface and Interface Analysis, 2012, 44, 1331-1337.	1.8	6
101	Synthesis and spectroscopic characterization of magnetic hydroxyapatite nanocomposite using ultrasonic irradiation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 87, 245-250.	3.9	39
102	Synthesis of hydroxyapatite nanoparticles by a novel ultrasonic assisted with mixed hollow sphere template method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 93, 131-134.	3.9	70
103	Spectroscopic investigation on formation and growth of mineralized nanohydroxyapatite for bone tissue engineering applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 92, 194-200.	3.9	60
104	A comparative study on the direct and pulsed current electrodeposition of hydroxyapatite coatings on surgical grade stainless steel. Surface and Coatings Technology, 2012, 206, 2859-2869.	4.8	108
105	Soliton switching in an anisotropic Heisenberg ferromagnetic spin chain with octupoleâ€”dipole interaction. Physica Scripta, 2011, 83, 055701.	2.5	22
106	Breatherlike electromagnetic wave propagation in an antiferromagnetic medium with Dzyaloshinsky-Moriya interaction. Physical Review E, 2011, 84, 066608.	2.1	35
107	A facile electrodeposition of hydroxyapatite onto borate passivated surgical grade stainless steel. Corrosion Science, 2011, 53, 2328-2334.	6.6	56
108	Synthesis, characterization and corrosion protection properties of poly(N-vinyl carbazole-co-glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.9	36

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127	New exact shape changing solitary solutions of a generalized Hirota equation with nonlinear inhomogeneities. <i>Chaos, Solitons and Fractals</i> , 2009, 42, 2322-2329.	5.1	30
128	A study on new benzotriazole derivatives as inhibitors on copper corrosion in ground water. <i>Corrosion Science</i> , 2009, 51, 2259-2265.	6.6	79
129	Spectroscopic investigations of nanohydroxyapatite powders synthesized by conventional and ultrasonic coupled sol-gel routes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 70, 1243-1245.	3.9	50
130	Surface and electrochemical characterization of pitting corrosion behaviour of 304 stainless steel in ground water media. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 439-449.	2.9	40
131	Inhibitors with biocidal functionalities to mitigate corrosion on mild steel in natural aqueous environment. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 681-689.	2.9	21
132	Alternating current induced corrosion. <i>Corrosion Engineering Science and Technology</i> , 2004, 39, 117-123.	1.4	24
133	Surface characterization and electrochemical corrosion behaviour of 304 stainless steel in aqueous media. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 194-202.	2.5	18
134	Synergistic effect of thiourea derivatives and non-ionic surfactants on the inhibition of corrosion of carbon steel in acid environments. <i>Anti-Corrosion Methods and Materials</i> , 2000, 47, 332-339.	1.5	27