

M Mahdavian

List of Publications by Year in descending order

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203
papers

12,438
citations

20036

63
h-index

38517

99
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207
all docs

207
docs citations

207
times ranked

6725
citing authors

#	ARTICLE	IF	CITATIONS
1	Epoxy nanocomposite coating based on calcium zinc phosphate with dual active/barrier corrosion mitigation properties. <i>Progress in Organic Coatings</i> , 2022, 163, 106677.	1.9	11
2	Ceria particles synthesized via combustion method to inspire active protection for epoxy coating on mild steel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128309.	2.3	5
3	Chemically controlled nitrogen-doped reduced-Graphene/Graphite oxide frameworks for aiding superior thermal/anti-corrosion performance: Integrated DFT-D & experimental evaluations. <i>Chemical Engineering Journal</i> , 2022, 437, 135241.	6.6	17
4	The Role of an In-Situ Grown Zn-Al Layered Double Hydroxide Conversion Coating in the Protective Properties of Epoxy Coating on Galvanized Steel. <i>Journal of the Electrochemical Society</i> , 2022, 169, 031511.	1.3	7
5	Construction of an epoxy coating with excellent protection performance on the AA 2024-T3 using ion-exchange materials loaded with eco-friendly corrosion inhibitors. <i>Progress in Organic Coatings</i> , 2022, 166, 106786.	1.9	6
6	A novel nitrogen- and sulfur-grafted reduced graphene oxide doped with zinc cations for corrosion mitigation of mild steel. <i>Progress in Organic Coatings</i> , 2022, 167, 106828.	1.9	6
7	A novel corrosion inhibitive system comprising Zn-Al LDH and hybrid sol-gel silane nanocomposite coating for AA2024-T3. <i>Journal of Alloys and Compounds</i> , 2022, 909, 164755.	2.8	25
8	Reducing damage extent of epoxy coating on magnesium substrate by Zr-enhanced PEO coating as an effective pretreatment. <i>Journal of Magnesium and Alloys</i> , 2022, , .	5.5	9
9	Synthesis of graphene oxide nanosheets decorated by nanoporous zeolite-imidazole (ZIF-67) based metal-organic framework with controlled-release corrosion inhibitor performance: Experimental and detailed DFT-D theoretical explorations. <i>Journal of Hazardous Materials</i> , 2021, 404, 124068.	6.5	114
10	Development of an active/barrier bi-functional anti-corrosion system based on the epoxy nanocomposite loaded with highly-coordinated functionalized zirconium-based nanoporous metal-organic framework (Zr-MOF). <i>Chemical Engineering Journal</i> , 2021, 408, 127361.	6.6	89
11	Superior corrosion protection and adhesion strength of epoxy coating applied on AZ31 magnesium alloy pre-treated by PEO/Silane with inorganic and organic corrosion inhibitors. <i>Corrosion Science</i> , 2021, 178, 109065.	3.0	110
12	Application of nanoporous cobalt-based ZIF-67 metal-organic framework (MOF) for construction of an epoxy-composite coating with superior anti-corrosion properties. <i>Corrosion Science</i> , 2021, 178, 109099.	3.0	98
13	Extrusion-based 3D printed biodegradable porous iron. <i>Acta Biomaterialia</i> , 2021, 121, 741-756.	4.1	52
14	Enhanced active/barrier corrosion protective properties of epoxy coatings containing eco-friendly green inorganic/organic hybrid pigments based on zinc cations/ <i>Ferula Asafoetida</i> leaves. <i>Journal of Molecular Liquids</i> , 2021, 323, 114584.	2.3	17
15	Release of lanthanum cations loaded into piperazine-modified SBA-15 to inhibit the mild steel corrosion. <i>Microporous and Mesoporous Materials</i> , 2021, 315, 110908.	2.2	7
16	Zn-Al layered double hydroxide as an inhibitive conversion coating developed on AA2024-T3 by one-step hydrothermal crystallization: Crystal structure evolution and corrosion protection performance. <i>Surface and Coatings Technology</i> , 2021, 409, 126882.	2.2	24
17	Chemical modification of LDH conversion coating with diethyldithiocarbamate as a novel anti-corrosive film for AA2024-T3. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 134-147.	2.9	21
18	Enhanced outdoor durability of polyurethane nanocomposite coatings with green reduced graphene oxide nanoplatelets. <i>Progress in Organic Coatings</i> , 2021, 154, 106212.	1.9	7

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19	MIL-88A (Fe) filler with duplicate corrosion inhibitive/barrier effect for epoxy coatings: Electrochemical, molecular simulation, and cathodic delamination studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 200-215.	2.9	45
20	Epoxy nanocomposite coatings with enhanced dual active/barrier behavior containing graphene-based carbon hollow spheres as corrosion inhibitor nanoreservoirs. <i>Corrosion Science</i> , 2021, 185, 109428.	3.0	41
21	Synthesis of hybrid organic-inorganic inhibitive pigment based on basil extract and zinc cation for application in protective construction coatings. <i>Construction and Building Materials</i> , 2021, 287, 123034.	3.2	10
22	Hybrid sol-gel coatings applied on anodized AA2024-T3 for active corrosion protection. <i>Surface and Coatings Technology</i> , 2021, 419, 127251.	2.2	30
23	Ce-oxide quantum dots decorated graphene oxide (CeO-QDs-GO) nano-platforms synthesis and application in epoxy matrix for efficient anti-corrosion ability. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 101, 51-65.	2.9	10
24	Acidic surface treatment of mild steel with enhanced corrosion protection for silane coatings application: The effect of zinc cations. <i>Progress in Organic Coatings</i> , 2021, 158, 106384.	1.9	4
25	Optimization of intrinsic self-healing silicone coatings by benzotriazole loaded mesoporous silica. <i>Surface and Coatings Technology</i> , 2021, 421, 127388.	2.2	22
26	Corrosion mitigation of mild steel in hydrochloric acid solution using grape seed extract. <i>Scientific Reports</i> , 2021, 11, 18374.	1.6	23
27	Fabrication of MIL-88A sandwiched in graphene oxide nanocomposites using a green approach to induce active/barrier protective functioning in epoxy coatings. <i>Journal of Cleaner Production</i> , 2021, 321, 128928.	4.6	27
28	One-pot synthesis and construction of a high performance metal-organic structured nano pigment based on nanoceria decorated cerium (III)-imidazole network (NC/CIN) for effective epoxy composite coating anti-corrosion and thermo-mechanical properties improvement. <i>Chemical Engineering Journal</i> , 2020, 382, 122820.	6.6	74
29	Effect of surface roughness and chemistry on the adhesion and durability of a steel-epoxy adhesive interface. <i>International Journal of Adhesion and Adhesives</i> , 2020, 96, 102450.	1.4	68
30	Solution combustion synthesis of cerium oxide nanoparticles as corrosion inhibitor. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 1514-1521.	1.1	21
31	Facile size and chemistry-controlled synthesis of mussel-inspired bio-polymers based on Polydopamine Nanospheres: Application as eco-friendly corrosion inhibitors for mild steel against aqueous acidic solution. <i>Journal of Molecular Liquids</i> , 2020, 298, 111974.	2.3	64
32	The effect of interlayer spacing on the inhibitor release capability of layered double hydroxide based nanocontainers. <i>Journal of Cleaner Production</i> , 2020, 251, 119676.	4.6	46
33	Rational assembly of mussel-inspired polydopamine (PDA)-Zn (II) complex nanospheres on graphene oxide framework tailored for robust self-healing anti-corrosion coatings application. <i>Chemical Engineering Journal</i> , 2020, 391, 123630.	6.6	113
34	Controlled oxidation of mild steel by potassium permanganate solution to enhance protective functioning of silane coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125251.	2.3	5
35	Fabrication of hollow carbon spheres doped with zinc cations to enhance corrosion protection of organosilane coatings. <i>Surfaces and Interfaces</i> , 2020, 21, 100696.	1.5	7
36	Construction of a novel corrosion protective composite film based on a core-shell LDH-Mo@SiO ₂ inhibitor nanocarrier with both self-healing/barrier functions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 113, 406-418.	2.7	19

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37	Effect of Piperazine Functionalization of Mesoporous Silica Type SBA-15 on the Loading Efficiency of 2-Mercaptobenzothiazole Corrosion Inhibitor. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3394-3404.	1.8	20
38	Unique 2-methylimidazole based Inorganic Building Brick nano-particles (NPs) functionalized with 3-aminopropyltriethoxysilane with excellent controlled corrosion inhibitors delivery performance; Experimental coupled with molecular/DFT-D simulations. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 209-222.	2.7	27
39	Designing a non-hazardous nano-carrier based on graphene oxide@Polyaniline-Praseodymium (III) for fabrication of the Active/Passive anti-corrosion coating. <i>Journal of Hazardous Materials</i> , 2020, 398, 123136.	6.5	46
40	The effect of time evolution and timing of the electrochemical data recording of corrosion inhibitor protection of hot-dip galvanized steel. <i>Corrosion Science</i> , 2020, 173, 108780.	3.0	26
41	Sodium diethyldithiocarbamate as a novel corrosion inhibitor to mitigate corrosion of 2024-T3 aluminum alloy in 3.5 wt% NaCl solution. <i>Journal of Molecular Liquids</i> , 2020, 307, 112965.	2.3	39
42	Cerium/diethyldithiocarbamate complex as a novel corrosion inhibitive pigment for AA2024-T3. <i>Scientific Reports</i> , 2020, 10, 5043.	1.6	18
43	The influence of phosphor particles on the water transport in optical silicones for LEDs. <i>Optical Materials: X</i> , 2020, 6, 100047.	0.3	1
44	Effective PEO/Silane pretreatment of epoxy coating applied on AZ31B Mg alloy for corrosion protection. <i>Corrosion Science</i> , 2020, 169, 108608.	3.0	84
45	Adsorption of eco-friendly carthamus tinctorius on steel surface in saline solution: A combination of electrochemical and theoretical studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 125042.	2.3	19
46	Synthesis, characterization and protective functioning of surface decorated Zn-Al layered double hydroxide with SiO ₂ nano-particles. <i>Surface and Coatings Technology</i> , 2020, 387, 125512.	2.2	14
47	Development of metal-organic framework (MOF) decorated graphene oxide nanoplateforms for anti-corrosion epoxy coatings. <i>Carbon</i> , 2020, 161, 231-251.	5.4	260
48	Designing a zinc-encapsulated Feldspar as a unique rock-forming tectosilicate nanocontainer in the epoxy coating; improving the robust barrier and self-healing anti-corrosion properties. <i>Construction and Building Materials</i> , 2020, 243, 118215.	3.2	23
49	Construction of a smart active/barrier anti-corrosion system based on epoxy-ester/zinc intercalated kaolin nanocontainer for steel substrate. <i>Construction and Building Materials</i> , 2020, 247, 118555.	3.2	21
50	Improving the Protection Performance of AA2024-T3 in 3.5 wt% NaCl Solution Using the Synergistic Effect of Cerium Cations and Diethyldithiocarbamate Molecules. <i>Journal of the Electrochemical Society</i> , 2020, 167, 131506.	1.3	14
51	Fabrication of a highly protective silane composite coating with limited water uptake utilizing functionalized carbon nano-tubes. <i>Composites Part B: Engineering</i> , 2019, 175, 107109.	5.9	39
52	Self-healing epoxy nanocomposite coatings based on dual-encapsulation of nano-carbon hollow spheres with film-forming resin and curing agent. <i>Composites Part B: Engineering</i> , 2019, 175, 107087.	5.9	57
53	Fabrication of Highly Effective Polyaniline Grafted Carbon Nanotubes To Induce Active Protective Functioning in a Silane Coating. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20309-20322.	1.8	37
54	Quantification of perceptual coarseness of metallic coatings containing aluminum flakes using texture analysis and visual assessment methods. <i>Progress in Organic Coatings</i> , 2019, 137, 105375.	1.9	6

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55	Green production of bioactive components from herbal origins through one-pot oxidation/polymerization reactions and application as a corrosion inhibitor for mild steel in HCl solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 105, 134-149.	2.7	67
56	In-situ growth of ceria nanoparticles on graphene oxide nanoplatelets to be used as a multifunctional (UV shield/radical scavenger/anticorrosive) hybrid compound for exterior coatings. <i>Progress in Organic Coatings</i> , 2019, 136, 105241.	1.9	18
57	Graphene oxide as a potential nanocarrier for Zn(II) to fabricate a dual-functional active/passive protection; sorption/desorption characteristics and electrochemical evaluation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 162-174.	2.9	20
58	Graphene oxide nano-sheets loading with praseodymium cations: Adsorption-desorption study, quantum mechanics calculations and dual active-barrier effect for smart coatings fabrication. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 143-154.	2.9	37
59	Urtica dioica extract as a facile green reductant of graphene oxide for UV resistant and corrosion protective polyurethane coating fabrication. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 125-136.	2.9	38
60	Eriobotrya japonica Lindl leaves extract application for effective corrosion mitigation of mild steel in HCl solution: Experimental and computational studies. <i>Construction and Building Materials</i> , 2019, 220, 161-176.	3.2	64
61	Application of layer-by-layer assembled graphene oxide nanosheets/polyaniline/zinc cations for construction of an effective epoxy coating anti-corrosion system. <i>Journal of Alloys and Compounds</i> , 2019, 800, 532-549.	2.8	89
62	Synthesis of polyaniline-modified graphene oxide for obtaining a high performance epoxy nanocomposite film with excellent UV blocking/anti-oxidant/ anti-corrosion capabilities. <i>Composites Part B: Engineering</i> , 2019, 173, 106804.	5.9	95
63	Synergistic effect of imidazole dicarboxylic acid and Zn ²⁺ simultaneously doped in halloysite nanotubes to improve protection of epoxy ester coating. <i>Progress in Organic Coatings</i> , 2019, 132, 29-40.	1.9	25
64	Synthesis and application of mesoporous carbon nanospheres containing walnut extract for fabrication of active protective epoxy coatings. <i>Progress in Organic Coatings</i> , 2019, 133, 206-219.	1.9	33
65	Highly potent radical scavenging-anti-oxidant activity of biologically reduced graphene oxide using Nettle extract as a green bio-genic amines-based reductants source instead of hazardous hydrazine hydrate. <i>Journal of Hazardous Materials</i> , 2019, 371, 609-624.	6.5	60
66	A detailed atomic level computational and electrochemical exploration of the Juglans regia green fruit shell extract as a sustainable and highly efficient green corrosion inhibitor for mild steel in 3.5 wt% NaCl solution. <i>Journal of Molecular Liquids</i> , 2019, 284, 682-699.	2.3	138
67	Doping of zinc cations in chemically modified halloysite nanotubes to improve protection function of an epoxy ester coating. <i>Corrosion Science</i> , 2019, 151, 69-80.	3.0	24
68	Mechanical and Corrosion Protection Properties of a Smart Composite Epoxy Coating with Dual-Encapsulated Epoxy/Polyamine in Carbon Nanospheres. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3033-3046.	1.8	55
69	Assessment of the smart self-healing corrosion protection properties of a water-base hybrid organo-silane film combined with non-toxic organic/inorganic environmentally friendly corrosion inhibitors on mild steel. <i>Journal of Cleaner Production</i> , 2019, 220, 340-356.	4.6	102
70	An investigation on the corrosion behavior of the epoxy coating embedded with mesoporous silica nanocontainer loaded by sulfamethazine inhibitor. <i>Progress in Organic Coatings</i> , 2019, 128, 75-81.	1.9	60
71	Synergistic effect of Mentha longifolia and zinc cations in silane primer coating to improve protection properties of the subsequent epoxy coating. <i>Progress in Organic Coatings</i> , 2019, 127, 55-69.	1.9	9
72	Persian Liquorice extract as a highly efficient sustainable corrosion inhibitor for mild steel in sodium chloride solution. <i>Journal of Cleaner Production</i> , 2019, 210, 660-672.	4.6	178

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73	Halloysite nanotubes loaded with imidazole dicarboxylic acid to enhance protection properties of a polymer coating. <i>Progress in Organic Coatings</i> , 2019, 127, 375-384.	1.9	18
74	Mathematical description of spectrophotometric properties of metallic coatings using spectral derivation and principal component analysis. <i>Progress in Organic Coatings</i> , 2019, 129, 338-348.	1.9	3
75	In-situ synthesis of Zn doped polyaniline on graphene oxide for inhibition of mild steel corrosion in 3.5 wt.% chloride solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 63, 322-339.	2.9	94
76	Compositional study of a corrosion protective layer formed by leachable lithium salts in a coating defect on AA2024-T3 aluminium alloys. <i>Progress in Organic Coatings</i> , 2018, 119, 65-75.	1.9	37
77	Glycyrrhiza glabra leaves extract as a green corrosion inhibitor for mild steel in 1 M hydrochloric acid solution: Experimental, molecular dynamics, Monte Carlo and quantum mechanics study. <i>Journal of Molecular Liquids</i> , 2018, 255, 185-198.	2.3	346
78	A comparative study on fabrication of a highly effective corrosion protective system based on graphene oxide-polyaniline nanofibers/epoxy composite. <i>Corrosion Science</i> , 2018, 133, 358-373.	3.0	193
79	Study of the active corrosion protection properties of epoxy ester coating with zeolite nanoparticles doped with organic and inorganic inhibitors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 85, 207-220.	2.7	64
80	Enhanced corrosion protection of mild steel by the synergetic effect of zinc aluminum polyphosphate and 2-mercaptobenzimidazole inhibitors incorporated in epoxy-polyamide coatings. <i>Corrosion Science</i> , 2018, 138, 372-379.	3.0	69
81	Chemical modification of talc with corrosion inhibitors to enhance the corrosion protective properties of epoxy-ester coating. <i>Progress in Organic Coatings</i> , 2018, 120, 110-122.	1.9	30
82	Immobilization of ultraviolet absorbers on graphene oxide nanosheets to be utilized as a multifunctional hybrid UV-blocker: A combined density functional theory and practical application. <i>Applied Surface Science</i> , 2018, 447, 135-151.	3.1	18
83	Fabrication of protective silane coating on mild steel: The role of hydrogen peroxide in acid treatment solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 64, 245-255.	2.9	11
84	Corrosion of mild steel in hydrochloric acid solution in the presence of two cationic gemini surfactants with and without hydroxyl substituted spacers. <i>Corrosion Science</i> , 2018, 137, 62-75.	3.0	71
85	Versatile protection of exterior coatings by the aid of graphene oxide nano-sheets; comparison with conventional UV absorbers. <i>Progress in Organic Coatings</i> , 2018, 116, 90-101.	1.9	36
86	Screening the anti-corrosion effect of a hybrid pigment based on zinc acetyl acetonate on the corrosion protection performance of an epoxy-ester polymeric coating. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 82, 261-272.	2.7	43
87	Magnetron-sputtered copper/diamond-like carbon composite thin films with super anti-corrosion properties. <i>Surface and Coatings Technology</i> , 2018, 333, 148-157.	2.2	59
88	Construction of a highly effective self-repair corrosion-resistant epoxy composite through impregnation of 1H-Benzimidazole corrosion inhibitor modified graphene oxide nanosheets (GO-BIM). <i>Corrosion Science</i> , 2018, 145, 119-134.	3.0	95
89	Wavelet Transform Modulus Maxima and Holder Exponents Combined with Transient Detection for the Differentiation of Pitting Corrosion Using Electrochemical Noise. <i>Corrosion</i> , 2018, 74, 1001-1010.	0.5	6
90	Synthesis and Characterization of Zeolites for Anti-corrosion Application: The Effect of Precursor and Hydrothermal Treatment. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4625-4634.	1.2	4

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91	A facile synthesis method of an effective anti-corrosion nanopigment based on zinc polyphosphate through microwaves assisted combustion method; comparing the influence of nanopigment and conventional zinc phosphate on the anti-corrosion properties of an epoxy coating. <i>Journal of Alloys and Compounds</i> , 2018, 762, 730-744.	2.8	57
92	Corrosion inhibition properties of a green hybrid pigment based on Pr-Urtica Dioica plant extract. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 116-125.	2.9	72
93	Study of the impact of sequence of corrosion inhibitor doping in zeolite on the self-healing properties of silane sol-gel film. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 221-230.	2.9	36
94	On the importance of irreversibility of corrosion inhibitors for active coating protection of AA2024-T3. <i>Corrosion Science</i> , 2018, 140, 272-285.	3.0	75
95	Evaluation of the corrosion protection performance of mild steel coated with hybrid sol-gel silane coating in 3.5 wt.% NaCl solution. <i>Progress in Organic Coatings</i> , 2018, 123, 190-200.	1.9	94
96	The use of odd random phase electrochemical impedance spectroscopy to study lithium-based corrosion inhibition by active protective coatings. <i>Electrochimica Acta</i> , 2018, 278, 363-373.	2.6	29
97	Corrosion Inhibition Performance and Healing Ability of a Hybrid Silane Coating in the Presence of Praseodymium (III) Cations. <i>Journal of the Electrochemical Society</i> , 2018, 165, C777-C786.	1.3	44
98	A combined experimental and electronic-structure quantum mechanics approach for studying the kinetics and adsorption characteristics of zinc nitrate hexahydrate corrosion inhibitor on the graphene oxide nanosheets. <i>Applied Surface Science</i> , 2018, 462, 963-979.	3.1	50
99	Fabrication of silane coating with improved protection performance using Mentha longifolia extract. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 88, 261-276.	2.7	23
100	Fabrication and characterization of graphene-based carbon hollow spheres for encapsulation of organic corrosion inhibitors. <i>Chemical Engineering Journal</i> , 2018, 352, 909-922.	6.6	97
101	Effect of inhibition synergism of zinc chloride and 2-mercaptobenzoxazole on protective performance of an ecofriendly silane coating on mild steel. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 48, 88-98.	2.9	45
102	The influence of a Zr-based conversion treatment on interfacial bonding strength and stability of epoxy coated carbon steel. <i>Progress in Organic Coatings</i> , 2017, 105, 29-36.	1.9	42
103	An advanced approach for fabricating a reduced graphene oxide-AZO dye/polyurethane composite with enhanced ultraviolet (UV) shielding properties: Experimental and first-principles QM modeling. <i>Chemical Engineering Journal</i> , 2017, 321, 159-174.	6.6	53
104	Active corrosion protection of Mg-Al-PO ₄ LDH nanoparticle in silane primer coated with epoxy on mild steel. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 248-262.	2.7	108
105	Corrosion Protection of Steel with Zinc Phosphate Conversion Coating and Post-Treatment by Hybrid Organic-Inorganic Sol-Gel Based Silane Film. <i>Journal of the Electrochemical Society</i> , 2017, 164, C224-C230.	1.3	53
106	Effects of highly crystalline and conductive polyaniline/graphene oxide composites on the corrosion protection performance of a zinc-rich epoxy coating. <i>Chemical Engineering Journal</i> , 2017, 320, 363-375.	6.6	265
107	A comparative study on corrosion inhibitive effect of nitrate and phosphate intercalated Zn-Al-layered double hydroxides (LDHs) nanocontainers incorporated into a hybrid silane layer and their effect on cathodic delamination of epoxy topcoat. <i>Corrosion Science</i> , 2017, 115, 159-174.	3.0	178
108	High-performance hybrid coatings based on diamond-like carbon and copper for carbon steel protection. <i>Diamond and Related Materials</i> , 2017, 80, 84-92.	1.8	33

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109	Fabrication of a Highly Tunable Graphene Oxide Composite through Layer-by-Layer Assembly of Highly Crystalline Polyaniline Nanofibers and Green Corrosion Inhibitors: Complementary Experimental and First-Principles Quantum-Mechanics Modeling Approaches. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20433-20450.	1.5	92
110	Synthesis of graphene oxide nanosheets functionalized by green corrosion inhibitive compounds to fabricate a protective system. <i>Corrosion Science</i> , 2017, 127, 240-259.	3.0	116
111	Electrochemical Investigations of the Corrosion Protection Properties of an Epoxy-Ester Coating Filled with Cerium Acetyl Acetonate Anticorrosive Pigment. <i>Journal of the Electrochemical Society</i> , 2017, 164, C709-C716.	1.3	33
112	Steel surface treatment with three different acid solutions and its effect on the protective properties of the subsequent silane coating. <i>Progress in Organic Coatings</i> , 2017, 112, 133-140.	1.9	26
113	Enhancement of silane coating protective performance by using a polydimethylsiloxane additive. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 55, 244-252.	2.9	33
114	The role of micro/nano zeolites doped with zinc cations in the active protection of epoxy ester coating. <i>Applied Surface Science</i> , 2017, 423, 571-583.	3.1	38
115	Zirconium-based conversion film formation on zinc, aluminium and magnesium oxides and their interactions with functionalized molecules. <i>Applied Surface Science</i> , 2017, 423, 817-828.	3.1	48
116	A sulfuric acid surface treatment of mild steel for enhancing the protective properties of an organosilane coating. <i>Progress in Organic Coatings</i> , 2017, 103, 156-164.	1.9	11
117	Effects of nano-silica and boron carbide on the curing kinetics of resole resin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1217-1226.	2.0	16
118	Development of an ecofriendly silane sol-gel coating with zinc acetylacetonate corrosion inhibitor for active protection of mild steel in sodium chloride solution. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 154-166.	1.1	32
119	Potency of ZnFe ₂ O ₄ Nanoparticles as Corrosion Inhibitor for Stainless Steel; the Pigment Extract Study. <i>Materials Research</i> , 2017, 20, 1492-1502.	0.6	29
120	Fabrication and characterization of layered double hydroxide/silane nanocomposite coatings for protection of mild steel. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 924-934.	2.7	69
121	Inhibitor-loaded conducting polymer capsules for active corrosion protection of coating defects. <i>Corrosion Science</i> , 2016, 112, 138-149.	3.0	123
122	Smart Self-Healing Polymer Coatings: Mechanical Damage Repair and Corrosion Prevention. , 2016, , 511-535.		2
123	Enhancement of the corrosion protection performance and cathodic delamination resistance of epoxy coating through treatment of steel substrate by a novel nanometric sol-gel based silane composite film filled with functionalized graphene oxide nanosheets. <i>Corrosion Science</i> , 2016, 109, 182-205.	3.0	305
124	Applicability of EIS for evaluation of corrosion resistance of aluminum flakes. <i>Anti-Corrosion Methods and Materials</i> , 2016, 63, 355-359.	0.6	2
125	Potassium Zinc Phosphate Pigment Coupled with Benzotriazole for Enhanced Protection of Carbon Steel. <i>Corrosion</i> , 2016, 72, 1526-1538.	0.5	11
126	The effect of zinc cation on the anticorrosion behavior of an eco-friendly silane sol-gel coating applied on mild steel. <i>Progress in Organic Coatings</i> , 2016, 101, 142-148.	1.9	40

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127	A Novel Approach for the Evaluation of Under Deposit Corrosion in Marine Environments Using Combined Analysis by Electrochemical Impedance Spectroscopy and Electrochemical Noise. <i>Electrochimica Acta</i> , 2016, 217, 226-241.	2.6	74
128	An integrated approach in the time, frequency and time-frequency domain for the identification of corrosion using electrochemical noise. <i>Electrochimica Acta</i> , 2016, 222, 627-640.	2.6	49
129	A closer look at constituent induced localised corrosion in Al-Cu-Mg alloys. <i>Corrosion Science</i> , 2016, 113, 160-171.	3.0	61
130	Study of the formation of a protective layer in a defect from lithium-leaching organic coatings. <i>Progress in Organic Coatings</i> , 2016, 99, 80-90.	1.9	49
131	Fabrication and Characterization of PO ₄ ³⁻ Intercalated Zn-Al- Layered Double Hydroxide Nanocontainer. <i>Journal of the Electrochemical Society</i> , 2016, 163, C495-C505.	1.3	70
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