Bahram Ramezanzadeh

List of Publications by Year
in descending order

358 papers	20,780 citations	7251 80 h-index	21843 118 g-index
362 all docs	362 docs citations	362 times ranked	8135 citing authors

#	Article	IF	Citations
1	Recent approaches to limit the tribocorrosion of biomaterials: A review. Biomass Conversion and Biorefinery, 2024, 14, 4369-4389.	2.9	2
2	Chitosan biomolecules-modified graphene oxide nano-layers decorated by mesoporous ZIF-9 nanocrystals for the construction of a smart/pH-triggered anti-corrosion coating system. Journal of Industrial and Engineering Chemistry, 2023, 121, 45-62.	2.9	3
3	Investigating the effectiveness of Watermelon extract-zinc ions for steel alloy corrosion mitigation in sodium chloride solution. Journal of Molecular Liquids, 2022, 346, 117086.	2.3	10
4	Stachys byzantina extract: A green biocompatible molecules source for graphene skeletons generation on the carbon steel for superior corrosion mitigation. Bioelectrochemistry, 2022, 143, 107970.	2.4	17
5	Recent innovations in synthesis/characterization of advanced nano-porous metal-organic frameworks (MOFs); current/future trends with a focus on the smart anti-corrosion features. Materials Chemistry and Physics, 2022, 276, 125420.	2.0	21
6	Effective steel alloy surface protection from HCl attacks using Nepeta Pogonesperma plant stems extract. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 127990.	2.3	10
7	Recent progress on the metal-organic frameworks decorated graphene oxide (MOFs-GO) nano-building application for epoxy coating mechanical-thermal/flame-retardant and anti-corrosion features improvement. Progress in Organic Coatings, 2022, 163, 106645.	1.9	27
8	Investigating the thermo-mechanical and UV-shielding properties of a nano-porous Zr(IV)-type metal-organic framework (MOF) incorporated epoxy composite coating. Progress in Organic Coatings, 2022, 164, 106693.	1.9	9
9	Rational design of a novel multi-functional carbon-based nano-carrier based on multi-walled-CNT-oxide/polydopamine/chitosan for epoxy composite with robust pH-sensitive active anti-corrosion properties. Carbon, 2022, 189, 113-141.	5.4	34
10	Molecular-dynamic/DFT-electronic theoretical studies coupled with electrochemical investigations of the carrot pomace extract molecules inhibiting potency toward mild steel corrosion in 1ÂM HCl solution. Journal of Molecular Liquids, 2022, 346, 118344.	2.3	27
11	Multi-walled CNT decoration by ZIF-8 nanoparticles: O-MWCNT@ZIF-8/epoxy interfacial, thermalâ€“mechanical properties analysis via combined DFT-D computational/experimental approaches. Journal of Industrial and Engineering Chemistry, 2022, 108, 170-187.	2.9	8
12	Chemically controlled nitrogen-doped reduced-Graphene/Graphite oxide frameworks for aiding superior thermal/anti-corrosion performance: Integrated DFT-D & experimental evaluations. Chemical Engineering Journal, 2022, 437, 135241.	6.6	17
13	Ultrastable Porous Covalent Organic Framework Assembled Carbon Nanotube as a Novel Nanocontainer for Anti-Corrosion Coatings: Experimental and Computational Studies. ACS Applied Materials & Interfaces, 2022, 14, 19958-19974.	4.0	32
14	Novel bi-functional RGO-HPSE-Zn@epoxy nanocomposite with superior corrosion protection potency. Journal of Industrial and Engineering Chemistry, 2022, 108, 28-46.	2.9	17
15	Electronic DFT-D modeling of L-citrulline molecules interactions with Beta-CD aligned rGO-APTES multi-functional nano-capsule for anti-corrosion application. Journal of Molecular Liquids, 2022, 354, 118814.	2.3	9
16	Detailed experimental investigation of the highly active corrosion inhibitive green molecules based on zinc cations/Nepeta Pogonosperma extract and toward the corrosion mitigation of mild steel in the saline solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128613.	2.3	13
17	A novel nitrogen- and sulfur-grafted reduced graphene oxide doped with zinc cations for corrosion mitigation of mild steel. Progress in Organic Coatings, 2022, 167, 106828.	1.9	6
18	MoO42â^'-doped oxidative polymerized pyrrole-graphene oxide core-shell structure synthesis and application for dual-barrier & active functional epoxy-coating construction. Progress in Organic Coatings, 2022, 167, 106845.	1.9	11

#	Article	IF	Citations
19	MD simulation/Quantum chemical calculations and experimental studies of Ranunculus bulbosus biomolecules impact on the mild steel dissolution reduction in a destructive acidic liquid. Journal of Molecular Liquids, 2022, 355, 118950.	2.3	12
20	An eco-friendly Ca Ce and Ca Y based LDH coating on AZ31 Mg alloy: Surface modification and its corrosion studies in simulated body fluid (SBF). Surface and Coatings Technology, 2022, 440, 128458.	2.2	12
21	Improvement of the dual barrier/active corrosion inhibition function of the epoxy composite filled with zinc doped-phytic acid-modified graphene oxide nanosheets. Progress in Organic Coatings, 2022, 168, 106884.	1.9	7
22	Metal-doped 2D rGO nano-sheets fabrication utilizing plant source bio-molecules and application in the epoxy anti-corrosive coating: Combined experimental and DFT-D modeling investigations. Progress in Organic Coatings, 2022, 170, 106938.	1.9	5
23	Introduction to graphene-based materials and their composites. , 2022, , 1-47.		0
24	Graphene-based polymer composites in corrosion protection applications. , 2022, , 559-581.		0
25	Designing Hybrid Mesoporous Pr/Tannate-Inbuilt ZIF8-Decorated MoS₂as Novel Nanoreservoirs toward Smart pH-Triggered Anti-corrosion/Robust Thermomechanical Epoxy Nanocoatings. ACS Applied Materials & Interfaces, 2022, 14, 31170-31193.	4.0	23
26	Rising of MXenes: Novel 2D-functionalized nanomaterials as a new milestone in corrosion science - a critical review. Advances in Colloid and Interface Science, 2022, 307, 102730.	7.0	29
27	La-MOF coordination polymer: An effective environmentally friendly pH-sensitive corrosion inhibitive-barrier nanofiller for the epoxy polyamide coating reinforcement. Journal of Environmental Chemical Engineering, 2022, 10, 108246.	3.3	24
28	Designing a novel anti-corrosion metal-organic platform based on dual-action epoxy coating. Progress in Organic Coatings, 2022, 170, 107007.	1.9	3
29	Development of a nanostructured film based on samarium (III)/polydopamine on the steel surface with superior anti-corrosion and water-repellency properties. Journal of Colloid and Interface Science, 2021, 582, 342-352.	5.0	31
30	A tailored pulsed substrate bias voltage deposited (a-C: Nb) thin-film coating on GTD-450 stainless steel: Enhancing mechanical and corrosion protection characteristics. Chemical Engineering Journal, 2021, 404, 126490.	6.6	20
31	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. Journal of Hazardous Materials, 2021, 404, 124068.	6.5	114
32	Construction of an epoxy composite coating with exceptional thermo-mechanical properties using Zr-based NH2-UiO-66 metal-organic framework (MOF): Experimental and DFT-D theoretical explorations. Chemical Engineering Journal, 2021, 408, 127366.	6.6	62
33	Synthesis of a multi-functional zinc-centered nitrogen-rich graphene-like thin film from natural sources on the steel surface for achieving superior anti-corrosion properties. Corrosion Science, 2021, 178, 109077.	3.0	35
34	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). Chemical Engineering Journal, 2021, 408, 127361.	6.6	89
35	Epoxy coating anti-corrosion properties enhancement via the steel surface treatment by nanostructured samarium oxide-poly-dopamine film. Journal of Hazardous Materials, 2021, 403, 123722.	6.5	14
36	Anti-corrosion performance of the mild steel substrate treated by a novel nanostructure europium oxide-based conversion coating: Electrochemical and surface studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125689.	2.3	14

#	Article	IF	Citations
37	Synergistic corrosion inhibition effects of the non-hazardous cerium nitrate and tannic acid polyphenolic molecules on the surface of mild-steel in chloride-containing solution: Detailed surface and electrochemical explorations. Journal of Molecular Liquids, 2021, 322, 114510.	2.3	11
38	Application of nanoporous cobalt-based ZIF-67 metal-organic framework (MOF) for construction of an epoxy-composite coating with superior anti-corrosion properties. Corrosion Science, 2021, 178, 109099.	3.0	98
39	Recent advances in biopolymers/carbohydrate polymers as effective corrosion inhibitive macro-molecules: A review study from experimental and theoretical views. Journal of Molecular Liquids, 2021, 325, 115110.	2.3	59
40	Synergistic mild steel corrosion mitigation in sodium chloride-containing solution utilizing various mixtures of phytic acid molecules and Zn2+ ions. Journal of Molecular Liquids, 2021, 323, 114589.	2.3	19
41	Construction of a high-potency anti-corrosive metal-organic film based on europium (III)-benzimidazole: Theoretical and electrochemical investigations. Construction and Building Materials, 2021, 269, 121271.	3.2	20
42	Thermomechanical and anticorrosion characteristics of metal-organic frameworks. , 2021, , 295-330.		6
43	Highly improving the mechanical-responses/thermal-stability of the epoxy nano-composite using novel highly-oxidized multi-walled carbon nanotubes (OMWCNT) functionalized by Zinc-doped Polyaniline (PANI) nanofibers. Journal of the Taiwan Institute of Chemical Engineers, 2021, 119, 245-258.	2.7	24
44	A highly-effective/durable metal-organic anti-corrosion film deposition on mild steel utilizing Malva sylvestris (M.S) phytoextract-divalent zinc cations. Journal of Industrial and Engineering Chemistry, 2021, 95, 292-304.	2.9	12
45	Recent advances and future perspectives for carbon nanostructures reinforced organic coating for anti-corrosion application. Surfaces and Interfaces, 2021, 23, 100994.	1.5	22
46	The role of ethanolic extract of Stachys byzantina's leaves for effective decreasing the mild-steel (MS) degradation in the acidic solution; coupled theoretical/experimental assessments. Journal of Molecular Liquids, 2021, 329, 115571.	2.3	30
47	A brief review of the graphene oxide-based polymer nanocomposite coatings: preparation, characterization, and properties. Journal of Coatings Technology Research, 2021, 18, 945-969.	1.2	20
48	Enhanced outdoor durability of polyurethane nanocomposite coatings with green reduced graphene oxide nanoplatelets. Progress in Organic Coatings, 2021, 154, 106212.	1.9	7
49	MIL-88A (Fe) filler with duplicate corrosion inhibitive/barrier effect for epoxy coatings: Electrochemical, molecular simulation, and cathodic delamination studies. Journal of Industrial and Engineering Chemistry, 2021, 97, 200-215.	2.9	45
50	Synthesis and application of Zn-doped polyaniline modified multi-walled carbon nanotubes as stimuli-responsive nanocarrier in the epoxy matrix for achieving excellent barrier-self-healing corrosion protection potency. Chemical Engineering Journal, 2021, 412, 128637.	6.6	81
51	Highly-effective/durable method of mild-steel corrosion mitigation in the chloride-based solution via fabrication of hybrid metal-organic film (MOF) generated between the active Trachyspermum Ammi bio-molecules-divalent zinc cations. Corrosion Science, 2021, 184, 109383.	3.0	24
52	Superior inhibition action of the Mish Gush (MG) leaves extract toward mild steel corrosion in HCl solution: Theoretical and electrochemical studies. Journal of Molecular Liquids, 2021, 332, 115876.	2.3	86
53	A comprehensive electronic-scale DFT modeling, atomic-level MC/MD simulation, and electrochemical/surface exploration of active nature-inspired phytochemicals based on Heracleum persicum seeds phytoextract for effective retardation of the acidic-induced corrosion of mild steel. Journal of Molecular Liquids, 2021, 331, 115764.	2.3	34
54	Theoretical and experimental assessment of a green corrosion inhibitor extracted from Malva sylvestris. Journal of Environmental Chemical Engineering, 2021, 9, 105256.	3.3	47

#	Article	IF	Citations
55	Synthesis of hybrid organicâ€“inorganic inhibitive pigment based on basil extract and zinc cation for application in protective construction coatings. Construction and Building Materials, 2021, 287, 123034.	3.2	10
56	Superior thermal-mechanical properties of the epoxy composite reinforced with rGO-ATMP; Combined DFT-D theoretical modeling/experimental studies. Journal of Molecular Liquids, 2021, 331, 115800.	2.3	13
57	Eco-friendly protocol for zinc-doped amorphous carbon-based film construction over steel surface using nature-inspired phytochemicals: Coupled experimental and classical atomic/molecular and electronic-level theoretical explorations. Journal of Environmental Chemical Engineering, 2021, 9, 105487.	3.3	19
58	Improvement of the anti-corrosion ability of a silane film with Î²-cyclodextrin-based nanocontainer loaded with L-histidine: Coupled experimental and simulations studies. Progress in Organic Coatings, 2021, 157, 106288.	1.9	10
59	Detailed theoretical DFT computation/molecular simulation and electrochemical explorations of Thymus vulgaris leave extract for effective mild-steel corrosion retardation in HCl solution. Journal of Molecular Liquids, 2021, 335, 115897.	2.3	32
60	Cyclodextrin-based nano-carrier for intelligent delivery of dopamine in a self-healable anti-corrosion coating. Journal of Environmental Chemical Engineering, 2021, 9, 105457.	3.3	16
61	A comprehensive overview of nano and micro carriers aiming at curtailing corrosion progression. Journal of the Taiwan Institute of Chemical Engineers, 2021, 126, 252-269.	2.7	17
62	Ce-TA MOF assembled GO nanosheets reinforced epoxy composite for superior thermo-mechanical properties. Journal of the Taiwan Institute of Chemical Engineers, 2021, 126, 313-323.	2.7	19
63	Theoretical and surface/electrochemical investigations of walnut fruit green husk extract as effective inhibitor for mild-steel corrosion in 1M HCl electrolyte. Journal of Molecular Liquids, 2021, 338, 116550.	2.3	117
64	Ce-oxide quantum dots decorated graphene oxide (CeO-QDs-GO) nano-platforms synthesis and application in epoxy matrix for efficient anti-corrosion ability. Journal of Industrial and Engineering Chemistry, 2021, 101, 51-65.	2.9	10
65	Molecular dynamic (MD) simulation and electrochemical assessments of the Satureja Hortensis extract for the construction of effective zinc-based protective film on carbon steel. Journal of Molecular Liquids, 2021, 338, 116606.	2.3	10
66	Designing an eco-friendly lanthanide-based metal organic framework (MOF) assembled graphene-oxide with superior active anti-corrosion performance in epoxy composite. Journal of Cleaner Production, 2021, 319, 128732.	4.6	74
67	Fabrication of MIL-88A sandwiched in graphene oxide nanocomposites using a green approach to induce active/barrier protective functioning in epoxy coatings. Journal of Cleaner Production, 2021, 321, 128928.	4.6	27
68	Nano-scale P, Zn-codoped reduced-graphene oxide incorporated epoxy composite; synthesis, electronic-level DFT-D modeling, and anti-corrosion properties. Progress in Organic Coatings, 2021, 159, 106416.	1.9	17
69	Combined atomic-scale/DFT-theoretical simulations & electrochemical assessments of the chamomile flower extract as a green corrosion inhibitor for mild steel in HCl solution. Journal of Molecular Liquids, 2021, 342, 117570.	2.3	73
70	Golpar leaves extract application for construction of an effective anti-corrosion film for superior mild-steel acidic-induced corrosion mitigation at different temperatures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127488.	2.3	21
71	S, P-codoped rGO-phytic acid-polythiophene coreâ€“shell; synthesis, modeling, and dual activeâ€“passive anti-corrosion performance of epoxy nanocomposite. Journal of Industrial and Engineering Chemistry, 2021, 103, 102-117.	2.9	15
72	Benzimidazole loaded Î²-cyclodextrin as a novel anti-corrosion system; coupled experimental/computational assessments. Journal of Colloid and Interface Science, 2021, 603, 716-727.	5.0	32

#	Article	IF	Citations
73	Steel-alloy surface protection against saline attacks via the development of Zn(II)-metal-organic networks using Lemon verbena leaves extract (LVLE); Integrated surface/electrochemical explorations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127561.	2.3	6
74	Application of L-citrulline loaded beta-cyclodextrin nano-carrier for fabrication of a corrosion protective silane film on mild-steel. Progress in Organic Coatings, 2021, 161, 106484.	1.9	5
75	Epoxy-ester coating reinforced with cerium (III)-tannic acid-based hybrid pigment for effective mild-steel substrate corrosion protection. Progress in Organic Coatings, 2021, 161, 106485.	1.9	8
76	Corrosion mitigation ability of differently synthesized polypyrrole (PPy-FeCl3 & PPy-APS) conductive polymers modified with Na2MoO4 on mild steel in 3.5% NaCl solution: Comparative study and optimization. Corrosion Science, 2021, 193, 109894.	3.0	26
77	2D reduced-graphene oxide (rGO) nanosheets decorated with l-histidine loaded-Î²-cyclodextrin for efficient epoxy nano-composite anti-corrosion properties; DFT-D modeling/experimental assessments. FlatChem, 2021, 30, 100309.	2.8	18
78	Graphene oxide nanoplatform surface decoration by spherical zinc-polypyrrole nanoparticles for epoxy coating properties enhancement: Detailed explorations from integrated experimental and electronic-scale quantum mechanics approaches. Journal of Alloys and Compounds, 2020, 816, 152510.	2.8	27
79	Designing a dual-functional epoxy composite system with self-healing/barrier anti-corrosion performance using graphene oxide nano-scale platforms decorated with zinc doped-conductive polypyrrole nanoparticles with great environmental stability and non-toxicity. Chemical Engineering Journal, 2020, 382, 122819.	6.6	122
80	Production of an environmentally stable anti-corrosion film based on Esfand seed extract molecules-metal cations: Integrated experimental and computer modeling approaches. Journal of Hazardous Materials, 2020, 382, 121029.	6.5	98
81	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. Journal of Molecular Liquids, 2020, 298, 111974.	2.3	64
82	Integrated modeling and electrochemical study of Myrobalan extract for mild steel corrosion retardation in acidizing media. Journal of Molecular Liquids, 2020, 298, 112046.	2.3	59
83	Promotion of the active/barrier protection function of epoxy ester coating/steel system utilizing differently synthesized hybrid pigment through zinc acetylacetonate tailored with green inhibitor molecules. Progress in Organic Coatings, 2020, 138, 105380.	1.9	10
84	Fabrication of metal-organic based complex film based on three-valent samarium ions-[bis (phosphonomethyl) amino] methylphosphonic acid (ATMP) for effective corrosion inhibition of mild steel in simulated seawater. Construction and Building Materials, 2020, 239, 117812.	3.2	44
85	Experimental complemented with microscopic (electronic/atomic)-level modeling explorations of Laurus nobilis extract as green inhibitor for carbon steel in acidic solution. Journal of Industrial and Engineering Chemistry, 2020, 84, 52-71.	2.9	59
86	Self-healing dual cured polyurethane elastomeric coatings prepared by orthogonal reactions. Progress in Organic Coatings, 2020, 140, 105503.	1.9	22
87	Synthesis and characterization of a high-quality nanocontainer based on benzimidazole-zinc phosphate (ZP-BIM) tailored graphene oxides; a facile approach to fabricating a smart self-healing anti-corrosion system. Journal of Colloid and Interface Science, 2020, 564, 230-244.	5.0	75
88	Corrosion resistance of epoxy coating on mild steel through polyamidoamine dendrimer-covalently functionalized graphene oxide nanosheets. Journal of Industrial and Engineering Chemistry, 2020, 82, 290-302.	2.9	57
89	The effect of interlayer spacing on the inhibitor release capability of layered double hydroxide based nanocontainers. Journal of Cleaner Production, 2020, 251, 119676.	4.6	46
90	Manipulating graphene oxide nanocontainer with benzimidazole and cerium ions: Application in epoxy-based nanocomposite for active corrosion protection. Corrosion Science, 2020, 165, 108379.	3.0	65

#	Article	IF	Citations
91	A detailed investigation of the chloride-induced corrosion of mild steel in the presence of combined green organic molecules of Primrose flower and zinc cations. Journal of Molecular Liquids, 2020, 297, 111862.	2.3	33
92	Rational assembly of mussel-inspired polydopamine (PDA)-Zn (II) complex nanospheres on graphene oxide framework tailored for robust self-healing anti-corrosion coatings application. Chemical Engineering Journal, 2020, 391, 123630.	6.6	113
93	Applying detailed molecular/atomic level simulation studies and electrochemical explorations of the green inhibiting molecules adsorption at the interface of the acid solution-steel substrate. Journal of Molecular Liquids, 2020, 299, 112220.	2.3	25
94	Epoxy composite coating corrosion protection properties reinforcement through the addition of hydroxyl-terminated hyperbranched polyamide non-covalently assembled graphene oxide platforms. Construction and Building Materials, 2020, 234, 117421.	3.2	33
95	Construction of an epoxy composite with excellent thermal/mechanical properties using graphene oxide nanosheets reduced/functionalized by Tamarindus indiaca extract/zinc ions; detailed experimental and DFT-D computer modeling explorations. Results in Physics, 2020, 19, 103400.	2.0	12
96	Construction of a novel corrosion protective composite film based on a core-shell LDH-Mo@SiO2 inhibitor nanocarrier with both self-healing/barrier functions. Journal of the Taiwan Institute of Chemical Engineers, 2020, 113, 406-418.	2.7	19
97	Green synthesis of reduced graphene oxide nanosheets decorated with zinc-centered metal-organic film for epoxy-ester composite coating reinforcement: DFT-D modeling and experimental explorations. Journal of the Taiwan Institute of Chemical Engineers, 2020, 114, 311-330.	2.7	16
98	Fabrication of a novel hydrophobic anti-corrosion film based on Eu2O3/stearic acid on steel surface; Experimental and detailed computer modeling studies. Journal of the Taiwan Institute of Chemical Engineers, 2020, 114, 228-240.	2.7	3
99	Construction of a high-performance anti-corrosion film based on the green tannic acid molecules and zinc cations on steel: Electrochemical/Surface investigations. Construction and Building Materials, 2020, 262, 120861.	3.2	15
100	A detailed study on the synergistic corrosion inhibition impact of the Quercetin molecules and trivalent europium salt on mild steel; electrochemical/surface studies, DFT modeling, and MC/MD computer simulation. Journal of Molecular Liquids, 2020, 316, 113914.	2.3	62
101	Synthesis of a novel metal-organic nanocomposite film (MONF) with superior corrosion protection performance based on the biomimetic polydopamine (PDA)-based molecules and Sm2O3 particles on the steel surface. Journal of Molecular Liquids, 2020, 319, 114143.	2.3	9
102	Detailed atomic/molecular-level/electronic-scale computer modeling and electrochemical explorations of the adsorption and anti-corrosion effectiveness of the green nitrogen-based phytochemicals on the mild steel surface in the saline solution. Journal of Molecular Liquids, 2020, 319, 114312.	2.3	16
103	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. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 209-222.	2.7	27
104	Theoretical MD/DFT computer explorations and surface-electrochemical investigations of the zinc/iron metal cations interactions with highly active molecules from Lemon balm extract toward the steel corrosion retardation in saline solution. Journal of Molecular Liquids, 2020, 310, 113220.	2.3	21
105	Construction of a unique anti-corrosion nanocomposite based on graphene oxide@Zn3PO4/epoxy; experimental characterization and detailed-theoretical quantum mechanics (QM) investigations. Construction and Building Materials, 2020, 256, 119439.	3.2	20
106	Synthesis of a non-hazardous/smart anti-corrosion nano-carrier based on beta-cyclodextrin-zinc acetylacetonate inclusion complex decorated graphene oxide (Î²-CD-ZnA-MGO). Journal of Hazardous Materials, 2020, 398, 122962.	6.5	36
107	Non-covalently surface modification of graphene oxide nanosheets and its role in the enhancement of the epoxy-based coatings` physical properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125061.	2.3	20
108	Construction of a sustainable/controlled-release nano-container of non-toxic corrosion inhibitors for the water-based siliconized film: Estimating the host-guest interactions/desorption of inclusion complexes of cerium acetylacetonate (CeA) with beta-cyclodextrin (Î²-CD) via detailed electronic/atomic-scale computer modeling and experimental methods. Journal of Hazardous Materials, 2020, 399, 123046.	6.5	31

#	Article	IF	Citations
109	Designing a novel targeted-release nano-container based on the silanized graphene oxide decorated with cerium acetylacetonate loaded beta-cyclodextrin (Î²-CD-CeA-MGO) for epoxy anti-corrosion coating. Chemical Engineering Journal, 2020, 400, 125860.	6.6	63
110	Designing a non-hazardous nano-carrier based on graphene oxide@Polyaniline-Praseodymium (III) for fabrication of the Active/Passive anti-corrosion coating. Journal of Hazardous Materials, 2020, 398, 123136.	6.5	46
111	Explorations of the adhesion and anti-corrosion properties of the epoxy coating on the carbon steel surface modified by Eu2O3 nanostructured film. Journal of Molecular Liquids, 2020, 314, 113658.	2.3	8
112	Nanoclay dispersion and colloidal stability improvement in phenol novolac epoxy composite via graphene oxide for the achievement of superior corrosion protection performance. Corrosion Science, 2020, 173, 108799.	3.0	19
113	Polyester-amide hyperbranched polymer as an interfacial modifier for graphene oxide nanosheets: Mechanistic approach in an epoxy nanocomposite coating. Progress in Organic Coatings, 2020, 142, 105573.	1.9	19
114	Construction of a highly-effective/sustainable corrosion protective composite nanofilm based on Aminotris(methylphosphonic acid) and trivalent cerium ions on mild steel against chloride solution. Construction and Building Materials, 2020, 261, 119838.	3.2	19
115	Estimating the synergistic corrosion inhibition potency of (2-(3,4-)-3,5,7-trihydroxy-4H-chromen-4-one) and trivalent-cerium ions on mild steel in NaCl solution. Construction and Building Materials, 2020, 261, 119923.	3.2	29
116	Studying the adsorption/inhibition impact of the cellulose and lignin compounds extracted from agricultural waste on the mild steel corrosion in HCl solution. Journal of Molecular Liquids, 2020, 304, 112751.	2.3	51
117	Developing a Graphite like Carbon:Niobium thin film on GTD-450 stainless steel substrate. Applied Surface Science, 2020, 511, 145613.	3.1	31
118	Potential role of a novel green eco-friendly inhibitor in corrosion inhibition of mild steel in HCl solution: Detailed macro/micro-scale experimental and computational explorations. Construction and Building Materials, 2020, 245, 118464.	3.2	121
119	Probing molecular adsorption/interactions and anti-corrosion performance of poppy extract in acidic environments. Journal of Molecular Liquids, 2020, 304, 112750.	2.3	63
120	Inspection the corrosion prevention performance and dry/wet interfacial adhesion qualities of the melamine-cured polyester coating applied on the treated mild steel surface with a nanostructured composite cerium-neodymium film. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 590, 124472.	2.3	13
121	L-cysteine reduced/functionalized graphene oxide application as a smart/control release nanocarrier of sustainable cerium ions for epoxy coating anti-corrosion properties improvement. Journal of Hazardous Materials, 2020, 389, 122135.	6.5	79
122	Development of metal-organic framework (MOF) decorated graphene oxide nanoplatforms for anti-corrosion epoxy coatings. Carbon, 2020, 161, 231-251.	5.4	260
123	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. Construction and Building Materials, 2020, 243, 118215.	3.2	23
124	A green assisted route for the fabrication of a high-efficiency self-healing anti-corrosion coating through graphene oxide nanoplatform reduction by Tamarindus indiaca extract. Journal of Hazardous Materials, 2020, 390, 122147.	6.5	83
125	Steel corrosion lowering in front of the saline solution by a nitrogen-rich source of green inhibitors: Detailed surface, electrochemical and computational studies. Construction and Building Materials, 2020, 254, 119266.	3.2	31
126	Copper-enriched diamond-like carbon coatings promote regeneration at the boneâ€“implant interface. Heliyon, 2020, 6, e03798.	1.4	33

#	Article	IF	Citations
127	Aloysia citrodora leaves extract corrosion retardation effect on mild-steel in acidic solution: Molecular/atomic scales and electrochemical explorations. Journal of Molecular Liquids, 2020, 310, 113221.	2.3	39
128	Construction of a smart active/barrier anti-corrosion system based on epoxy-ester/zinc intercalated kaolin nanocontainer for steel substrate. Construction and Building Materials, 2020, 247, 118555.	3.2	21
129	Detailed-level computer modeling explorations complemented with comprehensive experimental studies of Quercetin as a highly effective inhibitor for acid-induced steel corrosion. Journal of Molecular Liquids, 2020, 309, 113035.	2.3	64
130	Graphene oxide nanoplatforms reduction by green plant-sourced organic compounds for construction of an active anti-corrosion coating; experimental/electronic-scale DFT-D modeling studies. Chemical Engineering Journal, 2020, 397, 125433.	6.6	57
131	Beta-cyclodextrin-zinc acetylacetonate (Î²-CD@ZnA) inclusion complex formation as a sustainable/smart nanocarrier of corrosion inhibitors for a water-based siliconized composite film: Integrated experimental analysis and fundamental computational electronic/atomic-scale simulation. Composites Part B: Engineering, 2020, 197, 108152.	5.9	34
132	Tailoring hardness and electrochemical performance of TC4 coated Cu/a-C thin coating with introducing second metal Zr. Corrosion Science, 2020, 172, 108713.	3.0	25
133	Construction of a zinc-centered metalâ€“organic film with high anti-corrosion potency through covalent-bonding between the natural flavonoid-based molecules (Quercetin)/divalent-zinc: Computer modeling (integrated-DFT&MC/MD)/electrochemical-surface assessments. Journal of Industrial and Engineering Chemistry, 2020, 88, 382-395.	2.9	20
134	Utilizing Lemon Balm extract as an effective green corrosion inhibitor for mild steel in 1M HCl solution: A detailed experimental, molecular dynamics, Monte Carlo and quantum mechanics study. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 252-272.	2.7	242
135	Synthesis and characterization of polyaniline tailored graphene oxide quantum dot as an advance and highly crystalline carbon-based luminescent nanomaterial for fabrication of an effective anti-corrosion epoxy system on mild steel. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 369-382.	2.7	51
136	Enhancement of the Epoxy Coating Corrosion/Cathodic Delamination Resistances on Steel by a Samarium Based Conversion Coating. Journal of the Electrochemical Society, 2019, 166, C353-C364.	1.3	15
137	Highly effective mild steel corrosion inhibition in 1â€¯M HCl solution by novel green aqueous Mustard seed extract: Experimental, electronic-scale DFT and atomic-scale MC/MD explorations. Journal of Molecular Liquids, 2019, 293, 111559.	2.3	124
138	A detailed computational exploration and experimental surface/electrochemical analyses of mild steel functionalized by zinc-aminotris methylene phosphonic acid complex film. Applied Surface Science, 2019, 495, 143582.	3.1	33
139	Utilizing imidazole based ionic liquid as an environmentally friendly process for enhancement of the epoxy coating/graphene oxide composite corrosion resistance. Journal of Industrial and Engineering Chemistry, 2019, 79, 353-363.	2.9	54
140	Study of the synergistic effect of Mangifera indica leaves extract and zinc ions on the mild steel corrosion inhibition in simulated seawater: Computational and electrochemical studies. Journal of Molecular Liquids, 2019, 292, 111387.	2.3	97
141	Polyurethane coatings reinforced with 3-(triethoxysilyl)propyl isocyanate functionalized graphene oxide nanosheets: Mechanical and anti-corrosion properties. Progress in Organic Coatings, 2019, 136, 105243.	1.9	21
142	Green Eucalyptus leaf extract: A potent source of bio-active corrosion inhibitors for mild steel. Bioelectrochemistry, 2019, 130, 107339.	2.4	124
143	A green complex film based on the extract of Persian Echium amoenum and zinc nitrate for mild steel protection in saline solution; Electrochemical and surface explorations besides dynamic simulation. Journal of Molecular Liquids, 2019, 291, 111281.	2.3	31
144	Molecular/electronic/atomic-level simulation and experimental exploration of the corrosion inhibiting molecules attraction at the steel/chloride-containing solution interface. Journal of Molecular Liquids, 2019, 296, 111809.	2.3	48

#	Article	IF	Citations
145	Fabrication of Highly Effective Polyaniline Grafted Carbon Nanotubes To Induce Active Protective Functioning in a Silane Coating. Industrial & Engineering Chemistry Research, 2019, 58, 20309-20322.	1.8	37
146	Graphene oxide nanoflakes as an efficient dispersing agent for nanoclay lamellae in an epoxy-phenolic nanocomposite coating: Mechanistic approach. Composites Science and Technology, 2019, 184, 107879.	3.8	19
147	Synergistic corrosion inhibition effects of benzimidazole-samarium (III) molecules on the steel corrosion prevention in simulated seawater. Journal of Molecular Liquids, 2019, 296, 111801.	2.3	16
148	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. Journal of the Taiwan Institute of Chemical Engineers, 2019, 105, 134-149.	2.7	67
149	Combined molecular simulation, DFT computation and electrochemical studies of the mild steel corrosion protection against NaCl solution using aqueous Eucalyptus leaves extract molecules linked with zinc ions. Journal of Molecular Liquids, 2019, 294, 111550.	2.3	43
150	Graphene oxide as a potential nanocarrier for Zn(II) to fabricate a dual-functional active/passive protection; sorption/desorption characteristics and electrochemical evaluation. Journal of Industrial and Engineering Chemistry, 2019, 73, 162-174.	2.9	20
151	Electronic/atomic level fundamental theoretical evaluations combined with electrochemical/surface examinations of Tamarindus indiaca aqueous extract as a new green inhibitor for mild steel in acidic solution (HCl 1ÂM). Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 349-377.	2.7	93
152	Production of an eco-friendly anti-corrosion ceramic base nanostructured hybrid-film based on Nd (III)-C7H6N2 on the mild steel surface; Electrochemical and surface studies. Construction and Building Materials, 2019, 221, 456-468.	3.2	18
153	Application of green molecules from Chicory aqueous extract for steel corrosion mitigation against chloride ions attack; the experimental examinations and electronic/atomic level computational studies. Journal of Molecular Liquids, 2019, 290, 111176.	2.3	79
154	Graphene oxide nano-sheets loading with praseodymium cations: Adsorption-desorption study, quantum mechanics calculations and dual active-barrier effect for smart coatings fabrication. Journal of Industrial and Engineering Chemistry, 2019, 78, 143-154.	2.9	37
155	Elucidating detailed experimental and fundamental understandings concerning the green organic-inorganic corrosion inhibiting molecules onto steel in chloride solution. Journal of Molecular Liquids, 2019, 290, 111212.	2.3	66
156	Urtica dioica extract as a facile green reductant of graphene oxide for UV resistant and corrosion protective polyurethane coating fabrication. Journal of Industrial and Engineering Chemistry, 2019, 78, 125-136.	2.9	38
157	Synthesis and construction of a highly potent hybrid organic/inorganic anti-corrosive pigment for effective corrosion control of mild steel in simulated seawater. Construction and Building Materials, 2019, 222, 400-413.	3.2	19
158	Synthesis of impregnated Na+-montmorillonite as an eco-friendly inhibitive carrier and its subsequent protective effect on silane coated mild steel. Progress in Organic Coatings, 2019, 135, 135-147.	1.9	48
159	Eriobotrya japonica Lindl leaves extract application for effective corrosion mitigation of mild steel in HCl solution: Experimental and computational studies. Construction and Building Materials, 2019, 220, 161-176.	3.2	64
160	Application of layer-by-layer assembled graphene oxide nanosheets/polyaniline/zinc cations for construction of an effective epoxy coating anti-corrosion system. Journal of Alloys and Compounds, 2019, 800, 532-549.	2.8	89
161	Enhancement of the active/passive anti-corrosion properties of epoxy coating via inclusion of histamine/zinc modified/reduced graphene oxide nanosheets. Applied Surface Science, 2019, 488, 77-91.	3.1	60
162	Adsorption mechanism and synergistic corrosion-inhibiting effect between the green Nettle leaves extract and Zn2+ cations on carbon steel. Journal of Industrial and Engineering Chemistry, 2019, 77, 323-343.	2.9	81

#	Article	IF	Citations
163	Epoxy-polyamide nanocomposite coating with graphene oxide as cerium nanocontainer generating effective dual active/barrier corrosion protection. Composites Part B: Engineering, 2019, 172, 363-375.	5.9	154
164	Detailed macro-/micro-scale exploration of the excellent active corrosion inhibition of a novel environmentally friendly green inhibitor for carbon steel in acidic environments. Journal of the Taiwan Institute of Chemical Engineers, 2019, 100, 239-261.	2.7	87
165	Studying dual active/barrier and self-healing reinforcing effects of the Neodymium (III)-Benzimidazole hybrid complex in the epoxy coating/mild steel system. Journal of Alloys and Compounds, 2019, 790, 141-155.	2.8	15
166	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. Journal of Hazardous Materials, 2019, 371, 609-624.	6.5	60
167	Novel cost-effective and high-performance green inhibitor based on aqueous Peganum harmala seed extract for mild steel corrosion in HCl solution: Detailed experimental and electronic/atomic level computational explorations. Journal of Molecular Liquids, 2019, 283, 174-195.	2.3	175
168	A detailed electrochemical/theoretical exploration of the aqueous Chinese gooseberry fruit shell extract as a green and cheap corrosion inhibitor for mild steel in acidic solution. Journal of Molecular Liquids, 2019, 282, 366-384.	2.3	176
169	Effective epoxy composite coating mechanical/fracture toughness properties improvement by incorporation of graphene oxide nano-platforms reduced by a green/biocompatible reductant. Journal of Industrial and Engineering Chemistry, 2019, 75, 271-284.	2.9	26
170	Interfacial adhesion and corrosion protection properties improvement of a polyester-melamine coating by deposition of a novel green praseodymium oxide nanofilm: A comprehensive experimental and computational study. Journal of Industrial and Engineering Chemistry, 2019, 74, 26-40.	2.9	12
171	Green method of carbon steel effective corrosion mitigation in 1â€¯M HCl medium protected by Primula vulgaris flower aqueous extract via experimental, atomic-level MC/MD simulation and electronic-level DFT theoretical elucidation. Journal of Molecular Liquids, 2019, 284, 658-674.	2.3	74
172	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 3.5â€¯wt% NaCl solution. Journal of Molecular Liquids, 2019, 284, 682-699.	2.3	138
173	Development of a nanostructured Ce(III)-Pr(III) film for excellently corrosion resistance improvement of epoxy/polyamide coating on carbon steel. Journal of Alloys and Compounds, 2019, 792, 375-388.	2.8	26
174	Designing a potent anti-corrosion system based on graphene oxide nanosheets non-covalently modified with cerium/benzimidazole for selective delivery of corrosion inhibitors on steel in NaCl media. Journal of Molecular Liquids, 2019, 284, 415-430.	2.3	60
175	A combined experimental and theoretical study of green corrosion inhibition of mild steel in HCl solution by aqueous Citrullus lanatus fruit (CLF) extract. Journal of Molecular Liquids, 2019, 279, 603-624.	2.3	145
176	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. Journal of Cleaner Production, 2019, 220, 340-356.	4.6	102
177	The role of neodymium based thin film on the epoxy/steel interfacial adhesion and corrosion protection promotion. Applied Surface Science, 2019, 464, 516-533.	3.1	59
178	Use of Rosa canina fruit extract as a green corrosion inhibitor for mild steel in 1 M HCl solution: A complementary experimental, molecular dynamics and quantum mechanics investigation. Journal of Industrial and Engineering Chemistry, 2019, 69, 18-31.	2.9	209
179	Corrosion inhibition of mild steel in 1â€¯M HCl solution by ethanolic extract of eco-friendly Mangifera indica (mango) leaves: Electrochemical, molecular dynamics, Monte Carlo and ab initio study. Applied Surface Science, 2019, 463, 1058-1077.	3.1	214
180	A combined electrochemical, molecular dynamics, quantum mechanics and XPS analysis of the mild steel surface protected by a complex film composed of neodymium (III) and benzimidazole. Applied Surface Science, 2019, 464, 178-194.	3.1	49

#	Article	IF	Citations
181	Graphene oxide as a pH-sensitive carrier for targeted delivery of eco-friendly corrosion inhibitors in chloride solution: Experimental and theroretical investigations. Journal of Industrial and Engineering Chemistry, 2019, 72, 196-213.	2.9	81
182	Development of a high-performance corrosion protective functional nano-film based on poly acrylic acid-neodymium nitrate on mild steel surface. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 610-626.	2.7	29
183	The role of chrome and zinc free-based neodymium oxide nanofilm on adhesion and corrosion protection properties of polyester/melamine coating on mild steel: Experimental and molecular dynamics simulation study. Journal of Cleaner Production, 2019, 210, 872-886.	4.6	26
184	Persian Liquorice extract as a highly efficient sustainable corrosion inhibitor for mild steel in sodium chloride solution. Journal of Cleaner Production, 2019, 210, 660-672.	4.6	178
185	Low carbon steel surface modification by an effective corrosion protective nanocomposite film based on neodymium-polyacrylic acid-benzimidazole. Journal of Alloys and Compounds, 2019, 783, 952-968.	2.8	49
186	Potential of Borage flower aqueous extract as an environmentally sustainable corrosion inhibitor for acid corrosion of mild steel: Electrochemical and theoretical studies. Journal of Molecular Liquids, 2019, 277, 895-911.	2.3	199
187	Mild steel surface eco-friendly treatment by Neodymium-based nanofilm for fusion bonded epoxy coating anti-corrosion/adhesion properties enhancement in simulated seawater. Journal of Industrial and Engineering Chemistry, 2019, 72, 474-490.	2.9	27
188	Corrosion inhibition performance of novel eco-friendly nanoreservoirs as bi-component active system on mild steel in aqueous chloride solution. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 555-568.	2.7	38
189	In-situ synthesis of Zn doped polyaniline on graphene oxide for inhibition of mild steel corrosion in 3.5 wt.% chloride solution. Journal of Industrial and Engineering Chemistry, 2018, 63, 322-339.	2.9	94
190	The influence of steel surface treatment by a novel eco-friendly praseodymium oxide nanofilm on the adhesion and corrosion protection properties of a fusion-bonded epoxy powder coating. Journal of Industrial and Engineering Chemistry, 2018, 62, 427-435.	2.9	19
191	The role of functionalized graphene oxide on the mechanical and anti-corrosion properties of polyurethane coating. Journal of the Taiwan Institute of Chemical Engineers, 2018, 86, 199-212.	2.7	106
192	Active corrosion protection performance of an epoxy coating applied on the mild steel modified with an eco-friendly sol-gel film impregnated with green corrosion inhibitor loaded nanocontainers. Applied Surface Science, 2018, 440, 491-505.	3.1	107
193	Designing an elastomeric polyurethane coating with enhanced mechanical and self-healing properties: The influence of disulfide chain extender. Progress in Organic Coatings, 2018, 121, 45-52.	1.9	46
194	The epoxy coating interfacial adhesion and corrosion protection properties enhancement through deposition of cerium oxide nanofilm modified by graphene oxide. Journal of Industrial and Engineering Chemistry, 2018, 64, 402-419.	2.9	52
195	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. Journal of Molecular Liquids, 2018, 255, 185-198.	2.3	346
196	A comparative study on fabrication of a highly effective corrosion protective system based on graphene oxide-polyaniline nanofibers/epoxy composite. Corrosion Science, 2018, 133, 358-373.	3.0	193
197	Highly effective inhibition of mild steel corrosion in 3.5% NaCl solution by green Nettle leaves extract and synergistic effect of eco-friendly cerium nitrate additive: Experimental, MD simulation and QM investigations. Journal of Molecular Liquids, 2018, 256, 67-83.	2.3	173
198	New detailed insights on the role of a novel praseodymium nanofilm on the polymer/steel interfacial adhesion bonds in dry and wet conditions: An integrated molecular dynamics simulation and experimental study. Journal of the Taiwan Institute of Chemical Engineers, 2018, 85, 221-236.	2.7	33

#	Article	IF	Citations
199	Corrosion and magnetic properties of encapsulated carbonyl iron particles in aqueous suspension by inorganic thin films for magnetorheological finishing application. Applied Surface Science, 2018, 436, 1200-1212.	3.1	13
200	Fabrication of an efficient system for Zn ions removal from industrial wastewater based on graphene oxide nanosheets decorated with highly crystalline polyaniline nanofibers (GO-PANI): Experimental and ab initio quantum mechanics approaches. Chemical Engineering Journal, 2018, 337, 385-397.	6.6	84
201	Corrosion protection and adhesion properties of the epoxy coating applied on the steel substrate pre-treated by a sol-gel based silane coating filled with amino and isocyanate silane functionalized graphene oxide nanosheets. Applied Surface Science, 2018, 439, 45-59.	3.1	172
202	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. Applied Surface Science, 2018, 447, 135-151.	3.1	18
203	Polyaniline-cerium oxide (PAni-CeO 2) coated graphene oxide for enhancement of epoxy coating corrosion protection performance on mild steel. Corrosion Science, 2018, 137, 111-126.	3.0	273
204	Steel surface pre-treated by an advance and eco-friendly cerium oxide nanofilm modified by graphene oxide nanosheets; electrochemical and adhesion measurements. Journal of Alloys and Compounds, 2018, 747, 109-123.	2.8	43
205	The role of post-treatment of an ecofriendly cerium nanostructure Conversion coating by green corrosion inhibitor on the adhesion and corrosion protection properties of the epoxy coating. Progress in Organic Coatings, 2018, 114, 19-32.	1.9	63
206	Synthesis and characterization of an advanced layer-by-layer assembled Fe 3 O 4 /polyaniline nanoreservoir filled with Nettle extract as a green corrosion protective system. Journal of Industrial and Engineering Chemistry, 2018, 57, 263-274.	2.9	57
207	Epoxy/PAMAM dendrimer-modified graphene oxide nanocomposite coatings: Nonisothermal cure kinetics study. Progress in Organic Coatings, 2018, 114, 233-243.	1.9	135
208	Impact of size-controlled p-phenylenediamine (PPDA)-functionalized graphene oxide nanosheets on the GO-PPDA/Epoxy anti-corrosion, interfacial interactions and mechanical properties enhancement: Experimental and quantum mechanics investigations. Chemical Engineering Journal, 2018, 335, 737-755.	6.6	140
209	Screening the effect of chemical treatment of steel substrate by a composite cerium-lanthanum nanofilm on the adhesion and corrosion protection properties of a polyamide-cured epoxy coating; Experimental and molecular dynamic simulations. Progress in Organic Coatings, 2018, 114, 188-200.	1.9	28
210	Designing a multi-functionalized clay lamellar-co-graphene oxide nanosheet system: An inventive approach to enhance mechanical characteristics of the corresponding epoxy-based nanocomposite coating. Progress in Organic Coatings, 2018, 116, 7-20.	1.9	15
211	Versatile protection of exterior coatings by the aid of graphene oxide nano-sheets; comparison with conventional UV absorbers. Progress in Organic Coatings, 2018, 116, 90-101.	1.9	36
212	Epoxy/starch-modified nano-zinc oxide transparent nanocomposite coatings: A showcase of superior curing behavior. Progress in Organic Coatings, 2018, 115, 143-150.	1.9	99
213	Synthesis and characterization of a unique isocyanate silane reduced graphene oxide nanosheets; Screening the role of multifunctional nanosheets on the adhesion and corrosion protection performance of an amido-amine cured epoxy composite. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 281-299.	2.7	40
214	Construction of a highly effective self-repair corrosion-resistant epoxy composite through impregnation of 1H-Benzimidazole corrosion inhibitor modified graphene oxide nanosheets (GO-BIM). Corrosion Science, 2018, 145, 119-134.	3.0	95
215	Studying the Urtica dioica leaves extract inhibition effect on the mild steel corrosion in 1 M HCl solution: Complementary experimental, ab initio quantum mechanics, Monte Carlo and molecular dynamics studies. Journal of Molecular Liquids, 2018, 272, 120-136.	2.3	74
216	Anti-corrosion performance of an epoxy ester coating filled with a new generation of hybrid green organic/inorganic inhibitive pigment; electrochemical and surface characterizations. Applied Surface Science, 2018, 454, 1-15.	3.1	26

#	Article	IF	Citations
217	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. Journal of Alloys and Compounds, 2018, 762, 730-744.	2.8	57
218	Corrosion inhibition properties of a green hybrid pigment based on Pr-Urtica Dioica plant extract. Journal of Industrial and Engineering Chemistry, 2018, 66, 116-125.	2.9	72
219	Fabrication and characterization of zinc acetylacetonate/Urtica Dioica leaves extract complex as an effective organic/inorganic hybrid corrosion inhibitive pigment for mild steel protection in chloride solution. Applied Surface Science, 2018, 457, 487-496.	3.1	67
220	The Synergistic Effect of BTA-Co System on the Corrosion Inhibition of Mild Steel in 3.5Âwt% NaCl Solution. Journal of the Electrochemical Society, 2018, 165, C670-C680.	1.3	50
221	Evaluation of the corrosion protection performance of mild steel coated with hybrid sol-gel silane coating in 3.5 wt.% NaCl solution. Progress in Organic Coatings, 2018, 123, 190-200.	1.9	94
222	Short-lasting fire in partially and completely cured epoxy coatings containing expandable graphite and halloysite nanotube additives. Progress in Organic Coatings, 2018, 123, 160-167.	1.9	97
223	Corrosion Inhibition Performance and Healing Ability of a Hybrid Silane Coating in the Presence of Praseodymium (III) Cations. Journal of the Electrochemical Society, 2018, 165, C777-C786.	1.3	44
224	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. Applied Surface Science, 2018, 462, 963-979.	3.1	50
225	Influence of lanthanum as additive and post-treatment on the corrosion protection properties and surface morphology of mild steel chemically treated by a cerium conversion coating. Journal of Rare Earths, 2018, 36, 1112-1120.	2.5	21
226	Screening the effect of graphene oxide nanosheets functionalization with ionic liquid on the mechanical properties of an epoxy coating. Progress in Organic Coatings, 2018, 122, 255-262.	1.9	28
227	Fabrication of a low surface energy acrylic/melamine clearcoat with enhanced weathering and biological resistances: Investigation of the role of organic UV absorber and nanosilica particles. Progress in Organic Coatings, 2017, 105, 132-142.	1.9	27
228	A comparative study on the effects of ultrathin luminescent graphene oxide quantum dot (GOQD) and graphene oxide (GO) nanosheets on the interfacial interactions and mechanical properties of an epoxy composite. Journal of Colloid and Interface Science, 2017, 493, 62-76.	5.0	70
229	A novel fabrication of a high performance SiO2-graphene oxide (GO) nanohybrids: Characterization of thermal properties of epoxy nanocomposites filled with SiO2-GO nanohybrids. Journal of Colloid and Interface Science, 2017, 493, 111-122.	5.0	152
230	An electrochemical investigation of azole derivative on aluminum in 0.25 M HCl solution using EN and EIS techniques. Anti-Corrosion Methods and Materials, 2017, 64, 10-22.	0.6	6
231	Influence of sour oil on calcareous deposit nucleation. Anti-Corrosion Methods and Materials, 2017, 64, 129-135.	0.6	1
232	Cerium oxide nanoparticles influences on the binding and corrosion protection characteristics of a melamine-cured polyester resin on mild steel: An experimental, density functional theory and molecular dynamics simulation study. Corrosion Science, 2017, 118, 69-83.	3.0	77
233	Application of CuSâ€“ZnS PN junction for photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2017, 42, 9545-9552.	3.8	44
234	Corrosion protection properties and interfacial adhesion mechanism of an epoxy/polyamide coating applied on the steel surface decorated with cerium oxide nanofilm: Complementary experimental, molecular dynamics (MD) and first principle quantum mechanics (QM) simulation methods. Applied Surface Science, 2017, 419, 650-669.	3.1	69

#	Article	IF	Citations
235	Complementary experimental and quantum mechanics approaches for exploring the mechanical characteristics of epoxy composites loaded with graphene oxide-polyaniline nanofibers. Journal of Industrial and Engineering Chemistry, 2017, 53, 348-359.	2.9	40
236	A Detailed Molecular Dynamics Simulation and Experimental Investigation on the Interfacial Bonding Mechanism of an Epoxy Adhesive on Carbon Steel Sheets Decorated with a Novel Ceriumâ€“Lanthanum Nanofilm. ACS Applied Materials & Interfaces, 2017, 9, 17536-17551.	4.0	85
237	A new approach for enhancement of the corrosion protection properties and interfacial adhesion bonds between the epoxy coating and steel substrate through surface treatment by covalently modified amino functionalized graphene oxide film. Corrosion Science, 2017, 123, 55-75.	3.0	216
238	Synthesis and characterization of an effective organic/inorganic hybrid green corrosion inhibitive complex based on zinc acetate/Urtica Dioica. Applied Surface Science, 2017, 396, 1499-1514.	3.1	128
239	Enhancement of the mechanical properties of an epoxy composite through inclusion of graphene oxide nanosheets functionalized with silica nanoparticles through one and two steps sol-gel routes. Progress in Organic Coatings, 2017, 111, 1-12.	1.9	74
240	Corrosion Protection of Steel with Zinc Phosphate Conversion Coating and Post-Treatment by Hybrid Organic-Inorganic Sol-Gel Based Silane Film. Journal of the Electrochemical Society, 2017, 164, C224-C230.	1.3	53
241	Effects of highly crystalline and conductive polyaniline/graphene oxide composites on the corrosion protection performance of a zinc-rich epoxy coating. Chemical Engineering Journal, 2017, 320, 363-375.	6.6	265
242	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. Corrosion Science, 2017, 115, 159-174.	3.0	178
243	Synthesis and characterization of an effective green corrosion inhibitive hybrid pigment based on zinc acetate-Cichorium intybus L leaves extract (ZnA-CIL.L): Electrochemical investigations on the synergistic corrosion inhibition of mild steel in aqueous chloride solutions. Dyes and Pigments, 2017, 139, 218-232.	2.0	106
244	Fabricating an epoxy composite coating with enhanced corrosion resistance through impregnation of functionalized graphene oxide-co-montmorillonite Nanoplatelet. Corrosion Science, 2017, 129, 38-53.	3.0	129
245	Corrosion protective and adhesion properties of a melamine-cured polyester coating applied on steel substrate treated by a nanostructure ceriumâ€“lanthanum film. Journal of the Taiwan Institute of Chemical Engineers, 2017, 81, 419-434.	2.7	20
246	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. Journal of Physical Chemistry C, 2017, 121, 20433-20450.	1.5	92
247	Effects of combined organic and inorganic corrosion inhibitors on the nanostructure cerium based conversion coating performance on AZ31 magnesium alloy: Morphological and corrosion studies. Corrosion Science, 2017, 127, 186-200.	3.0	89
248	Synthesis of graphene oxide nanosheets functionalized by green corrosion inhibitive compounds to fabricate a protective system. Corrosion Science, 2017, 127, 240-259.	3.0	116
249	Network formation and thermal stability enhancement in evolutionary crosslinked PDMS elastomers with sol-gel-formed silica nanoparticles: Comparativeness between as-received and pre-hydrolyzed TEOS. Progress in Organic Coatings, 2017, 113, 117-125.	1.9	11
250	Active corrosion protection of mild steel by an epoxy ester coating reinforced with hybrid organic/inorganic green inhibitive pigment. Journal of Alloys and Compounds, 2017, 728, 1289-1304.	2.8	68
251	Electrochemical Investigations of the Corrosion Protection Properties of an Epoxy-Ester Coating Filled with Cerium Acetyl Acetonate Anticorrosive Pigment. Journal of the Electrochemical Society, 2017, 164, C709-C716.	1.3	33
252	Enhancement of the physical/mechanical properties of an epoxy composite by addition of aluminum nanoparticles through modification with cerium oxides and functionalization by SiO2-NH2 thin films. Progress in Organic Coatings, 2017, 112, 244-253.	1.9	21

#	Article	IF	Citations
253	Enhancement of the Corrosion Protection Properties of a Hybrid Sol-Gel Based Silane Film through Impregnation of Functionalized Graphene Oxide Nanosheets. Journal of the Electrochemical Society, 2017, 164, C1044-C1058.	1.3	27
254	Electrochemical investigations of the corrosion resistance of a hybrid solâ€“gel film containing green corrosion inhibitor-encapsulated nanocontainers. Journal of the Taiwan Institute of Chemical Engineers, 2017, 81, 356-372.	2.7	57
255	Improvement in the protective performance of epoxy ester coating through inclusion of an effective hybrid green corrosion inhibitive pigment. Journal of the Taiwan Institute of Chemical Engineers, 2017, 81, 391-405.	2.7	18
256	Experimental and theoretical studies of the synergistic inhibition effects between the plant leaves extract (PLE) and zinc salt (ZS) in corrosion control of carbon steel in chloride solution. Journal of Molecular Liquids, 2017, 248, 854-870.	2.3	117
257	Enhancement of silane coating protective performance by using a polydimethylsiloxane additive. Journal of Industrial and Engineering Chemistry, 2017, 55, 244-252.	2.9	33
258	The effect of cerium-based conversion treatment on the cathodic delamination and corrosion protection performance of carbon steel-fusion-bonded epoxy coating systems. Applied Surface Science, 2017, 392, 1004-1016.	3.1	67
259	The Role of Porosity and Surface Morphology of Calcium Carbonate Deposits on the Corrosion Behavior of Unprotected API 5L X52 Rotating Disk Electrodes in Artificial Seawater. Journal of the Electrochemical Society, 2016, 163, C515-C529.	1.3	18
260	Demonstration of epoxy/carbon steel interfacial delamination behavior: Electrochemical impedance and X-ray spectroscopic analyses. Corrosion Science, 2016, 102, 326-337.	3.0	36
261	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. Corrosion Science, 2016, 109, 182-205.	3.0	305
262	A Close-up of the Effect of Iron Oxide Type on the Interfacial Interaction between Epoxy and Carbon Steel: Combined Molecular Dynamics Simulations and Quantum Mechanics. Journal of Physical Chemistry C, 2016, 120, 11014-11026.	1.5	87
263	A new strategy for improvement of the corrosion resistance of a green cerium conversion coating through thermal treatment procedure before and after application of epoxy coating. Applied Surface Science, 2016, 390, 623-632.	3.1	57
264	Influence of Sweet Crude Oil on Nucleation and Corrosion Resistance of Calcareous Deposits. Journal of Materials Engineering and Performance, 2016, 25, 4805-4811.	1.2	4
265	Effects of combined surface treatments of aluminium nanoparticle on its corrosion resistance before and after inclusion into an epoxy coating. Progress in Organic Coatings, 2016, 101, 486-501.	1.9	49
266	Potassium Zinc Phosphate Pigment Coupled with Benzotriazole for Enhanced Protection of Carbon Steel. Corrosion, 2016, 72, 1526-1538.	0.5	11
267	A Novel Approach for the Evaluation of Under Deposit Corrosion in Marine Environments Using Combined Analysis by Electrochemical Impedance Spectroscopy and Electrochemical Noise. Electrochimica Acta, 2016, 217, 226-241.	2.6	74
268	A physico-mechanical investigation of a novel hyperbranched polymer-modified clay/epoxy nanocomposite coating. Progress in Organic Coatings, 2016, 99, 263-273.	1.9	29
269	Fabrication and Characterization of PO₄^{3â^'}Intercalated Zn-Al- Layered Double Hydroxide Nanocontainer. Journal of the Electrochemical Society, 2016, 163, C495-C505.	1.3	70
270	Hybrid silane coating reinforced with silanized graphene oxide nanosheets with improved corrosion protective performance. RSC Advances, 2016, 6, 54102-54112.	1.7	117

#	Article	IF	Citations
271	Synthesize and characterization of a novel anticorrosive cobalt ferrite nanoparticles dispersed in silica matrix (CoFe 2 O 4 -SiO 2) to improve the corrosion protection performance of epoxy coating. Applied Surface Science, 2016, 377, 86-98.	3.1	65
272	Electrochemical and surface characterizations of morus alba pendula leaves extract (MAPLE) as a green corrosion inhibitor for steel in 1M HCl. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 436-452.	2.7	151
273	Detecting and estimating the extent of automotive coating delamination and damage indexes after stone chipping using electrochemical impedance spectroscopy. Progress in Organic Coatings, 2016, 92, 95-109.	1.9	43
274	Effect of Various Spinel Ferrite Nanopigments Modified by Amino Propyl Trimethoxy Silane on the Corrosion Inhibition Properties of the Epoxy Nanocomposites. Corrosion, 2016, 72, 761-774.	0.5	38
275	Enhancement of barrier and corrosion protection performance of an epoxy coating through wet transfer of amino functionalized graphene oxide. Corrosion Science, 2016, 103, 283-304.	3.0	647
276	The role of surface energy reducing agent in the formation of self-induced nanoscale surface features and wetting behavior of polyurethane coatings. Progress in Organic Coatings, 2016, 90, 317-323.	1.9	16
277	Synthesis and characterization of the fourth generation of zinc phosphate pigment in the presence of benzotriazole. Dyes and Pigments, 2016, 124, 18-26.	2.0	49
278	Effects of surface morphology and treatment of iron oxide nanoparticles on the mechanical properties of an epoxy coating. Progress in Organic Coatings, 2016, 90, 10-20.	1.9	45
279	Covalently-grafted graphene oxide nanosheets to improve barrier and corrosion protection properties of polyurethane coatings. Carbon, 2015, 93, 555-573.	5.4	324
280	Morphological analysis and corrosion performance of zirconium based conversion coating on the aluminum alloy 1050. Journal of Industrial and Engineering Chemistry, 2015, 24, 233-244.	2.9	63
281	Studying the effects of surface modification of Cr2O3 nanoparticles by 3-aminopropyltrimethoxysilane (APTMS) on its corrosion inhibitive performance. Journal of Sol-Gel Science and Technology, 2015, 73, 141-153.	1.1	8
282	Evaluation of the Anticorrosion and Adhesion Properties of an Epoxy/Polyamide Coating Applied on the Steel Surface Treated by an Ambient Temperature Zinc Phosphate Coating Containing Ni2+Cations. Corrosion, 2015, 71, 4-13.	0.5	17
283	An evaluation of the anticorrosion properties of the spinel nanopigment-filled epoxy composite coatings applied on the steel surface. Progress in Organic Coatings, 2015, 80, 164-175.	1.9	27
284	Effects of KOH:ZnCl2 mole ratio on the phase formation, morphological and inhibitive properties of potassium zinc phosphate (PZP) pigments. Journal of Alloys and Compounds, 2015, 631, 138-145.	2.8	11
285	Surface Modification of Aluminum Flakes with Amino Trimethylene Phosphonic Acid: Studying the Surface Characteristics and Corrosion Behavior of the Pigment in the Epoxy Coating. Corrosion, 2015, 71, 628-640.	0.5	4
286	A study on the corrosion inhibition properties of silane-modified Fe2O3 nanoparticle on mild steel and its effect on the anticorrosion properties of the polyurethane coating. Journal of Coatings Technology Research, 2015, 12, 277-292.	1.2	69
287	The corrosion performance and adhesion properties of the epoxy coating applied on the steel substrates treated by cerium-based conversion coatings. Corrosion Science, 2015, 94, 466-475.	3.0	179
288	An evaluation of the mechanical and adhesion properties of a hydroxyl-terminated polybutadiene (HTPB)-based adhesive including different kinds of chain extenders. Polymer Bulletin, 2015, 72, 755-777.	1.7	7

#	Article	IF	Citations
289	Improved performance of cerium conversion coatings on steel with zinc phosphate post-treatment. Journal of Industrial and Engineering Chemistry, 2015, 30, 225-233.	2.9	73
290	Synthesis and characterization of a new generation of inhibitive pigment based on zinc acetate/benzotriazole: Solution phase and coating phase studies. Dyes and Pigments, 2015, 122, 331-345.	2.0	90
291	Effects of different surface cleaning procedures on the superficial morphology and the adhesive strength of epoxy coating on aluminium alloy 1050. Progress in Organic Coatings, 2015, 87, 52-60.	1.9	46
292	The corrosion inhibitive properties of various kinds of potassium zinc phosphate pigments: Solution phase and coating phase studies. Progress in Organic Coatings, 2015, 85, 109-122.	1.9	37
293	Effects of surface treatment of aluminium alloy 1050 on the adhesion and anticorrosion properties of the epoxy coating. Applied Surface Science, 2015, 345, 360-368.	3.1	88
294	The application of benzimidazole and zinc cations intercalated sodium montmorillonite as smart ion exchange inhibiting pigments in the epoxy ester coating. Corrosion Science, 2015, 94, 207-217.	3.0	176
295	Effects of Curing Condition on the Surface Characteristics of Two-pack Polyurethane Coatings Containing Low Surface Energy Additive. Soft Materials, 2015, 13, 144-149.	0.8	5
296	Corrosion resistance of flaky aluminum pigment coated with cerium oxides/hydroxides in chloride and acidic electrolytes. Applied Surface Science, 2015, 357, 2121-2130.	3.1	31
297	The Corrosion Protection Performance of the Polyurethane Coatings Containing Surface Modified Fe₂O₃Nanoparticles. Corrosion, 2015, 71, 1012-1026.	0.5	15
298	Stone-chipping and adhesion deterioration of automotive coating systems caused by outdoor weathering of underneath layers. Journal of Industrial and Engineering Chemistry, 2015, 31, 291-300.	2.9	16
299	Studying various mixtures of 3-aminopropyltriethoxysilane (APS) and tetraethylorthosilicate (TEOS) silanes on the corrosion resistance of mild steel and adhesion properties of epoxy coating. International Journal of Adhesion and Adhesives, 2015, 63, 166-176.	1.4	77
300	An investigation of the electrochemical action of the epoxy zinc-rich coatings containing surface modified aluminum nanoparticle. Applied Surface Science, 2015, 328, 95-108.	3.1	102
301	Influence of nanoclay particles modification by polyester-amide hyperbranched polymer on the corrosion protective performance of the epoxy nanocomposite. Corrosion Science, 2015, 92, 162-172.	3.0	121
302	The effects of addition of poly(vinyl) alcohol (PVA) as a green corrosion inhibitor to the phosphate conversion coating on the anticorrosion and adhesion properties of the epoxy coating on the steel substrate. Applied Surface Science, 2015, 327, 174-181.	3.1	96
303	Electrochemical noise investigation of Aloe plant extract as green inhibitor on the corrosion of stainless steel in 1 M H 2 SO 4. Journal of Industrial and Engineering Chemistry, 2015, 21, 318-327.	2.9	157
304	Investigation of corrosion protection properties of an epoxy nanocomposite loaded with polysiloxane surface modified nanosilica particles on the steel substrate. Progress in Organic Coatings, 2015, 78, 395-403.	1.9	105
305	An investigation of the effects of pre-polymer functionality on the curing behavior and mechanical properties of HTPB-based polyurethane. Journal of Industrial and Engineering Chemistry, 2015, 24, 166-173.	2.9	39
306	Studying the corrosion protection properties of an epoxy coating containing different mixtures of strontium aluminum polyphosphate (SAPP) and zinc aluminum phosphate (ZPA) pigments. Progress in Organic Coatings, 2014, 77, 160-167.	1.9	68

#	Article	IF	Citations
307	Preparation of surface energy controlled automotive clearcoats loaded with functional silicon additives: Studying the resistance against tree gum attack. Journal of Industrial and Engineering Chemistry, 2014, 20, 1402-1410.	2.9	5
308	Studying the rheology, optical clarity and surface tension of an acrylic/melamine automotive clearcoat loaded with different additives. Progress in Organic Coatings, 2014, 77, 101-109.	1.9	10
309	Task-specific ionic liquid as a new green inhibitor of mild steel corrosion. Applied Surface Science, 2014, 289, 478-486.	3.1	196
310	Corrosion Resistance and Cathodic Delamination of an Epoxy/Polyamide Coating on Milled Steel. Corrosion, 2014, 70, 56-65.	0.5	25
311	Surface modification of Cr2O3 nanoparticles with 3-amino propyl trimethoxy silane (APTMS). Part 1: Studying the mechanical properties of polyurethane/Cr2O3 nanocomposites. Progress in Organic Coatings, 2014, 77, 1663-1673.	1.9	47
312	Surface modification of Fe 2 O 3 nanoparticles with 3-aminopropyltrimethoxysilane (APTMS): An attempt to investigate surface treatment on surface chemistry and mechanical properties of polyurethane/Fe 2 O 3 nanocomposites. Applied Surface Science, 2014, 320, 60-72.	3.1	85
313	Electrochemical investigation of the properties of Co doped ZnO nanoparticle as a corrosion inhibitive pigment for modifying corrosion resistance of the epoxy coating. Corrosion Science, 2014, 88, 387-399.	3.0	113
314	Application of EIS and salt spray tests for investigation of the anticorrosion properties of polyurethane-based nanocomposites containing Cr2O3 nanoparticles modified with 3-amino propyl trimethoxy silane. Progress in Organic Coatings, 2014, 77, 1935-1945.	1.9	39
315	Effects of different silicon-based surface active additives on degradability of clearcoats exposed to bird droppings. Journal of Coatings Technology Research, 2014, 11, 533-543.	1.2	4
316	Anticorrosion properties of an epoxy zinc-rich composite coating reinforced with zinc, aluminum, and iron oxide pigments. Journal of Coatings Technology Research, 2014, 11, 727-737.	1.2	43
317	Analysis of electrochemical noise (ECN) data in time and frequency domain for comparison corrosion inhibition of some azole compounds on Cu in 1.0M H2SO4 solution. Applied Surface Science, 2014, 289, 129-140.	3.1	90
318	Studying the influence of nano-Al2O3 particles on the corrosion performance and hydrolytic degradation resistance of an epoxy/polyamide coating on AA-1050. Progress in Organic Coatings, 2014, 77, 1391-1399.	1.9	126
319	Mechanistic approach for evaluation of the corrosion inhibition of potassium zinc phosphate pigment on the steel surface: Application of surface analysis and electrochemical techniques. Dyes and Pigments, 2014, 109, 189-199.	2.0	67
320	Cathodic Delamination and Anticorrosion Performance of an Epoxy Coating Containing Nano/Micro-Sized ZnO Particles on Cr(III)-Co(II)/Cr(III)-Ni(II) Posttreated Steel Samples. Corrosion, 2013, 69, 793-803.	0.5	33
321	Studying the effects of chain extenders chemical structures on the adhesion and mechanical properties of a polyurethane adhesive. Journal of Industrial and Engineering Chemistry, 2013, 19, 1949-1955.	2.9	50
322	The effects of zinc aluminum phosphate (ZPA) and zinc aluminum polyphosphate (ZAPP) mixtures on corrosion inhibition performance of epoxy/polyamide coating. Journal of Industrial and Engineering Chemistry, 2013, 19, 1031-1039.	2.9	83
323	Application of the electrochemical noise to investigate the corrosion resistance of an epoxy zinc-rich coating loaded with lamellar aluminum and micaceous iron oxide particles. Corrosion Science, 2013, 77, 118-127.	3.0	104
324	Studying corrosion performance, microstructure and adhesion properties of a room temperature zinc phosphate conversion coating containing Mn2+ on mild steel. Surface and Coatings Technology, 2013, 236, 361-367.	2.2	92

#	Article	IF	Citations
325	Role of surface active additives on reduction of surface free energy and enhancing the mechanical Attributes of easy-to-clean automotive clearcoats: Investigating resistance against simulated tree gum. International Journal of Adhesion and Adhesives, 2013, 44, 209-219.	1.4	14
326	A comparative study between experimentally measured mechanical attributes and usersâ€™ perception of soft feel coatings: Correlating human sense with surface characteristics of polyurethane based coatings. Progress in Organic Coatings, 2013, 76, 1369-1375.	1.9	5
327	Evaluation of the effects of surface treatments on the cathodic delamination and anticorrosion performance of an epoxy-nanocomposite on steel substrate. Journal of Coatings Technology Research, 2013, 10, 47-55.	1.2	11
328	Fabrication of low surface free energy automotive clear coats: Mechanical and surface chemistry studies. Journal of Applied Polymer Science, 2013, 128, 4067-4076.	1.3	4
329	Preparation of solâ€“gel based nano-structured hybrid coatings: effects of combined precursorâ€™s mixtures on coatings morphological and mechanical properties. Journal of Sol-Gel Science and Technology, 2012, 64, 232-244.	1.1	7
330	The influence of basecoat pigmentation on chemical structure and surface topology of automotive clearcoats during weathering. Progress in Organic Coatings, 2012, 75, 420-428.	1.9	12
331	Investigating the degradation resistance of silicone-acrylate containing automotive clearcoats exposed to bird droppings. Progress in Organic Coatings, 2012, 75, 170-177.	1.9	18
332	Effects of Co(II) and Ni(II) on the Surface Morphology and Anticorrosion Performance of the Steel Samples Pretreated by Cr(III) Conversion Coating. Corrosion, 2012, 68, 015008-1-015008-11.	0.5	27
333	The effect of basecoat pigmentation on the scratch resistance and weathering performance of an acrylicâ€“melamine basecoat/clearcoat automotive finish. Tribology International, 2012, 47, 77-89.	3.0	10
334	Effect of polysiloxane additives on the scratch resistance of an acrylic melamine automotive clearcoat. Journal of Coatings Technology Research, 2012, 9, 203-214.	1.2	17
335	Preparation of solâ€“gel-based nanostructured hybrid coatings; part 1: morphological and mechanical studies. Journal of Materials Science, 2012, 47, 440-454.	1.7	11
336	Evaluation of the corrosion resistance of an epoxy-polyamide coating containing different ratios of micaceous iron oxide/Al pigments. Corrosion Science, 2011, 53, 1592-1603.	3.0	116
337	On the electrochemical and structural behavior of biologically degraded automotive coatings; Part 1: Effect of natural and simulated bird droppings. Progress in Organic Coatings, 2011, 71, 19-31.	1.9	18
338	Characterization of the fracture behavior and viscoelastic properties of epoxy-polyamide coating reinforced with nanometer and micrometer sized ZnO particles. Progress in Organic Coatings, 2011, 71, 242-249.	1.9	46
339	Studying the effects of micro and nano sized ZnO particles on the corrosion resistance and deterioration behavior of an epoxy-polyamide coating on hot-dip galvanized steel. Progress in Organic Coatings, 2011, 71, 314-328.	1.9	122
340	A study on the anticorrosion performance of the epoxyâ€“polyamide nanocomposites containing ZnO nanoparticles. Progress in Organic Coatings, 2011, 72, 410-422.	1.9	110
341	A new approach to investigate scratch morphology and appearance of an automotive coating containing nano-SiO2 and polysiloxane additives. Progress in Organic Coatings, 2011, 72, 541-552.	1.9	18
342	Studying the role of polysiloxane additives and nano-SiO2 on the mechanical properties of a typical acrylic/melamine clearcoat. Progress in Organic Coatings, 2011, 72, 621-631.	1.9	29

#	Article	IF	Citations
343	Studying the corrosion resistance and hydrolytic degradation of an epoxy coating containing ZnO nanoparticles. Materials Chemistry and Physics, 2011, 130, 1208-1219.	2.0	139
344	Attributing the resistance against simulated tree gum of an acrylic/melamine film loaded with an active silicone additive to its surface free energy. International Journal of Adhesion and Adhesives, 2011, 31, 775-783.	1.4	17
345	Effect of ZnO nanoparticles on the thermal and mechanical properties of epoxy-based nanocomposite. Journal of Thermal Analysis and Calorimetry, 2011, 103, 731-739.	2.0	112
346	An evaluation of the corrosion resistance and adhesion properties of an epoxy-nanocomposite on a hot-dip galvanized steel (HDG) treated by different kinds of conversion coatings. Surface and Coatings Technology, 2011, 205, 4649-4657.	2.2	74
347	A mechanistic study of degradation of a typical automotive clearcoat caused by bird droppings. Journal of Coatings Technology Research, 2011, 8, 83-95.	1.2	20
348	Studying the effects of the chemical structure of an automotive clearcoat on its biological degradation caused by tree gums. Journal of Coatings Technology Research, 2011, 8, 375-387.	1.2	13
349	Corrosion performance of a hot-dip galvanized steel treated by different kinds of conversion coatings. Surface and Coatings Technology, 2010, 205, 874-884.	2.2	86
350	The role of basecoat pigmentation on the biological resistance of an automotive clearcoat. Journal of Coatings Technology Research, 2010, 7, 677-689.	1.2	21
351	The Effect of Natural Tree Gum and Environmental Condition on the Degradation of a Typical Automotive Clear Coat. Journal of Polymers and the Environment, 2010, 18, 545-557.	2.4	20
352	A study of thermalâ€“mechanical properties of an automotive coating exposed to natural and simulated bird droppings. Journal of Thermal Analysis and Calorimetry, 2010, 102, 13-21.	2.0	25
353	Effect of addition of hydrophobic nano silica on viscoelastic properties and scratch resistance of an acrylic/melamine automotive clearcoat. Tribology International, 2010, 43, 685-693.	3.0	62
354	An evaluation of an automotive clear coat performance exposed to bird droppings under different testing approaches. Progress in Organic Coatings, 2009, 66, 149-160.	1.9	37
355	Use of analytical techniques to reveal the influence of chemical structure of clearcoat on its biological degradation caused by bird-droppings. Progress in Organic Coatings, 2009, 66, 281-290.	1.9	27
356	Comparisons of weathering performance of two automotive refinish coatings: A case study. Journal of Applied Polymer Science, 2009, 111, 2946-2956.	1.3	27
357	Plant extracts: Probable alternatives for traditional inhibitors for controlling alloys corrosion against acidic mediaâ€”A review. Biomass Conversion and Biorefinery, 0, , .	2.9	11
358	Combined clove extract bio-molecules and zinc(II) ion synergistic effects in steel corrosion mitigation in saline solution: electronic (DFT) modeling, atomic/molecular (MC/MD) simulations, and corrosion measurement. Biomass Conversion and Biorefinery, 0, , .	2.9	5