Reza Naderi

List of Publications by Year
in descending order

90 papers	3,623 citations	109321 35 h-index	149698 56 g-index
90 all docs	90 docs citations	90 times ranked	1991 citing authors

#	Article	IF	Citations
1	In situ synthesis, electrochemical and quantum chemical analysis of an amino acid-derived ionic liquid inhibitor for corrosion protection of mild steel in 1M HCl solution. Corrosion Science, 2016, 112, 73-85.	6.6	218
2	Electrochemical impedance spectroscopy and electrochemical noise measurements as tools to evaluate corrosion inhibition of azole compounds on stainless steel in acidic media. Corrosion Science, 2013, 75, 269-279.	6.6	159
3	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.	12.0	154
4	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.	6.1	128
5	Corrosion behavior of mild steel in H2SO4 solution with 1,4-di [1â€²-methylene-3â€²-methyl imidazolium bromide]-benzene as an ionic liquid. Corrosion Science, 2016, 107, 96-106.	6.6	119
6	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. Corrosion Science, 2021, 178, 109065.	6.6	110
7	The role of zinc aluminum phosphate anticorrosive pigment in Protective Performance and cathodic disbondment of epoxy coating. Corrosion Science, 2010, 52, 1291-1296.	6.6	95
8	Corrosion inhibition of mild steel in sodium chloride solution by some zinc complexes. Corrosion Science, 2011, 53, 1194-1200.	6.6	84
9	Effective PEO/Silane pretreatment of epoxy coating applied on AZ31B Mg alloy for corrosion protection. Corrosion Science, 2020, 169, 108608.	6.6	84
10	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.	5.8	81
11	Study of corrosion protection of mild steel by eco-friendly silane solâ€“gel coating. Journal of Sol-Gel Science and Technology, 2014, 70, 329-338.	2.4	79
12	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.	12.4	79
13	Electrochemical study of protective behavior of organic coating pigmented with zinc aluminum polyphosphate as a modified zinc phosphate at different pigment volume concentrations. Progress in Organic Coatings, 2009, 66, 314-320.	3.9	74
14	Synergistic effect of clay nanoparticles and cerium component on the corrosion behavior of eco-friendly silane solâ€“gel layer applied on pure aluminum. Surface and Coatings Technology, 2013, 224, 93-100.	4.8	74
15	Investigation on the inhibition synergism of new generations of phosphate-based anticorrosion pigments. Dyes and Pigments, 2014, 105, 23-33.	3.7	74
16	Effect of curing characterization on the corrosion performance of polyester and polyester/epoxy powder coatings. Corrosion Science, 2008, 50, 3280-3286.	6.6	71
17	Enhanced corrosion protection of mild steel by the synergetic effect of zinc aluminum polyphosphate and 2-mercaptobenzimidazole inhibitors incorporated in epoxy-polyamide coatings. Corrosion Science, 2018, 138, 372-379.	6.6	69
18	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.	6.1	67

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19	Corrosion and wear behavior of an electroless Ni-P/nano-SiC coating on AZ31 Mg alloy obtained through environmentally-friendly conversion coating. Surface and Coatings Technology, 2020, 382, 125156.	4.8	66
20	EIS examination of mill scale on mild steel with polyesterâ€“epoxy powder coating. Progress in Organic Coatings, 2004, 50, 162-165.	3.9	65
21	Electrochemical assessing corrosion inhibiting effects of zinc aluminum polyphosphate (ZAPP) as a modified zinc phosphate pigment. Electrochimica Acta, 2008, 53, 5692-5696.	5.2	65
22	Manipulating graphene oxide nanocontainer with benzimidazole and cerium ions: Application in epoxy-based nanocomposite for active corrosion protection. Corrosion Science, 2020, 165, 108379.	6.6	65
23	Study of the active corrosion protection properties of epoxy ester coating with zeolite nanoparticles doped with organic and inorganic inhibitors. Journal of the Taiwan Institute of Chemical Engineers, 2018, 85, 207-220.	5.3	64
24	Electrochemical behavior of organic and inorganic complexes of Zn(II) as corrosion inhibitors for mild steel: Solution phase study. Electrochimica Acta, 2009, 54, 6892-6895.	5.2	61
25	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.	4.9	60
26	Ceria-embedded MAO process as pretreatment for corrosion protection of epoxy films applied on AZ31-magnesium alloy. Journal of Alloys and Compounds, 2019, 785, 669-683.	5.5	54
27	Application of the electrochemical noise method to evaluate the effectiveness of modification of zinc phosphate anticorrosion pigment. Corrosion Science, 2009, 51, 1671-1674.	6.6	49
28	The inhibitive performance of polyphosphate-based anticorrosion pigments using electrochemical techniques. Dyes and Pigments, 2009, 80, 349-354.	3.7	45
29	Effect of inhibition synergism of zinc chloride and 2-mercaptobenzoxzole on protective performance of an ecofriendly silane coating on mild steel. Journal of Industrial and Engineering Chemistry, 2017, 48, 88-98.	5.8	45
30	The effect of zinc cation on the anticorrosion behavior of an eco-friendly silane solâ€“gel coating applied on mild steel. Progress in Organic Coatings, 2016, 101, 142-148.	3.9	40
31	Role of lanthanum nitrate in protective performance of PEO/epoxy double layer on AZ31 Mg alloy: Electrochemical and thermodynamic investigations. Journal of Industrial and Engineering Chemistry, 2017, 53, 213-227.	5.8	40
32	Fabrication of a highly protective silane composite coating with limited water uptake utilizing functionalized carbon nano-tubes. Composites Part B: Engineering, 2019, 175, 107109.	12.0	39
33	The role of micro/nano zeolites doped with zinc cations in the active protection of epoxy ester coating. Applied Surface Science, 2017, 423, 571-583.	6.1	38
34	Determination of optimum concentration of cloisite in an eco-friendly silane sol-gel film to improve corrosion resistance of mild steel. Applied Clay Science, 2014, 95, 243-251.	5.2	37
35	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.	3.7	37
36	Study of the impact of sequence of corrosion inhibitor doping in zeolite on the self-healing properties of silane solâ€“gel film. Journal of Industrial and Engineering Chemistry, 2018, 66, 221-230.	5.8	36

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37	Cathodic disbondment of epoxy coating with zinc aluminum polyphosphate as a modified zinc phosphate anticorrosion pigment. Progress in Organic Coatings, 2010, 69, 392-395.	3.9	35
38	Electrochemical examining behavior of epoxy coating incorporating zinc-free phosphate-based anticorrosion pigment. Progress in Organic Coatings, 2013, 76, 302-306.	3.9	33
39	Development of an ecofriendly silane sol-gel coating with zinc acetylacetonate corrosion inhibitor for active protection of mild steel in sodium chloride solution. Journal of Sol-Gel Science and Technology, 2017, 81, 154-166.	2.4	32
40	Improvement in the corrosion resistance of stainless steel 304L in sodium chloride solution by a nanoclay incorporated silane coating. RSC Advances, 2015, 5, 706-716.	3.6	31
41	Chemical modification of talc with corrosion inhibitors to enhance the corrosion protective properties of epoxy-ester coating. Progress in Organic Coatings, 2018, 120, 110-122.	3.9	30
42	Electrochemical study of effect of the concentration of azole derivatives on corrosion behavior of stainless steel in H2SO4. Progress in Organic Coatings, 2014, 77, 1761-1767.	3.9	28
43	Evaluation of cathodic disbondment of epoxy coating containing azole compounds. Journal of Industrial and Engineering Chemistry, 2015, 21, 1167-1173.	5.8	26
44	Steel surface treatment with three different acid solutions and its effect on the protective properties of the subsequent silane coating. Progress in Organic Coatings, 2017, 112, 133-140.	3.9	26
45	Electrochemical techniques and quantum chemical analysis as tools to study effect of a dicationic ionic liquid on steel behavior in H2SO4. Journal of the Taiwan Institute of Chemical Engineers, 2019, 99, 18-28.	5.3	26
46	Effect of Curing Conditions on the Protective Performance of an Ecofriendly Hybrid Silane Solâ€“Gel Coating with Clay Nanoparticles Applied on Mild Steel. Industrial & Engineering Chemistry Research, 2014, 53, 10644-10652.	3.7	25
47	The effect of mixture of mercaptobenzimidazole and zinc phosphate on the corrosion protection of epoxy/polyamide coating. Progress in Organic Coatings, 2015, 86, 117-124.	3.9	25
48	Effect of synthesized NiFe 2 O 4 -silica nanocomposite on the performance of an ecofriendly silane solâ€“gel coating. Progress in Organic Coatings, 2016, 90, 407-413.	3.9	25
49	Synergistic effect of imidazole dicarboxylic acid and Zn2+ simultaneously doped in halloysite nanotubes to improve protection of epoxy ester coating. Progress in Organic Coatings, 2019, 132, 29-40.	3.9	25
50	Doping of zinc cations in chemically modified halloysite nanotubes to improve protection function of an epoxy ester coating. Corrosion Science, 2019, 151, 69-80.	6.6	24
51	The impact of pigment volume concentration on the protective performance of polyurethane coating with second generation of phosphate based anticorrosion pigment. Progress in Organic Coatings, 2014, 77, 1768-1773.	3.9	22
52	Characterization of corrosion inhibition performance of azole compounds through power spectral density of electrochemical noise. Journal of Electroanalytical Chemistry, 2014, 714-715, 56-62.	3.8	21
53	Electrochemical behavior of polypyrrole-coated AZ31 alloy modified by fluoride anions. Journal of Solid State Electrochemistry, 2017, 21, 777-785.	2.5	21
54	Effect of phosphorous content and heat treatment on the structure, hardness and wear behavior of Co-P coatings. Wear, 2019, 422-423, 35-43.	3.1	21

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55	EIS and ENM as tools to evaluate inhibitive performance of second generation of phosphate-based anticorrosion pigments. Journal of Applied Electrochemistry, 2009, 39, 2353-2358.	2.9	20
56	Effect of zinc-free phosphate-based anticorrosion pigment on the cathodic disbondment of epoxy-polyamide coating. Progress in Organic Coatings, 2014, 77, 830-835.	3.9	20
57	Effect of Piperazine Functionalization of Mesoporous Silica Type SBA-15 on the Loading Efficiency of 2-Mercaptobenzothiazole Corrosion Inhibitor. Industrial & Engineering Chemistry Research, 2020, 59, 3394-3404.	3.7	20
58	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.	4.7	20
59	Improvement in the protective performance and adhesion of polypyrrole coating on AZ31 Mg alloys. Progress in Natural Science: Materials International, 2015, 25, 478-485.	4.4	19
60	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.	4.9	19
61	Optimization of silane solâ€“gel coatings for the protection of aluminium components of heat exchangers. Surface and Interface Analysis, 2013, 45, 1457-1466.	1.8	18
62	Study on the protective function of cloisite incorporated silane solâ€“gel coatings cured at different conditions. Applied Clay Science, 2015, 114, 93-102.	5.2	18
63	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.	5.3	18
64	Halloysite nanotubes loaded with imidazole dicarboxylic acid to enhance protection properties of a polymer coating. Progress in Organic Coatings, 2019, 127, 375-384.	3.9	18
65	Impact of curing on the corrosion performance of an eco-friendly silane solâ€“gel coating on 304L stainless steel. RSC Advances, 2015, 5, 43225-43233.	3.6	17
66	Synergistic corrosion inhibition effects of benzimidazole-samarium (III) molecules on the steel corrosion prevention in simulated seawater. Journal of Molecular Liquids, 2019, 296, 111801.	4.9	16
67	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.	2.9	15
68	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.	7.2	15
69	Using plant extracts to modify Al electrochemical behavior under corroding and functioning conditions in the air battery with alkaline-ethylene glycol electrolyte. Journal of Industrial and Engineering Chemistry, 2021, 102, 327-342.	5.8	14
70	Effect of silane as surface modifier and coupling agent on rheological and protective performance of epoxy/nano-glassflake coating systems. Iranian Polymer Journal (English Edition), 2014, 23, 559-567.	2.4	13
71	Investigation on the effect of various surface preparations on corrosion performance of powder coated steel by EIS. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 325-328.	1.5	11
72	Effect of DC trend removal and window functioning methods on correlation between electrochemical noise parameters and EIS data of stainless steel in an inhibited acidic solution. RSC Advances, 2014, 4, 39045.	3.6	11

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73	A sulfuric acid surface treatment of mild steel for enhancing the protective properties of an organosilane coating. Progress in Organic Coatings, 2017, 103, 156-164.	3.9	11
74	Fabrication of protective silane coating on mild steel: The role of hydrogen peroxide in acid treatment solution. Journal of Industrial and Engineering Chemistry, 2018, 64, 245-255.	5.8	11
75	Effect of coating composition on the anticorrosion performance of a silane solâ€“gel layer on mild steel. RSC Advances, 2015, 5, 106485-106491.	3.6	10
76	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.	3.9	10
77	An imidazole-based benzilic-dicationic ionic liquid performance in 1.0ÂM HCl solution to mitigate the mild steel degradation: Electrochemical noise/impedance investigation. Journal of Molecular Liquids, 2021, 336, 116320.	4.9	10
78	Improvement in polyurethane coating performance through zinc aluminium phosphate pigment. Pigment and Resin Technology, 2016, 45, 419-425.	0.9	9
79	Synergistic effect of Mentha longifolia and zinc cations in silane primer coating to improve protection properties of the subsequent epoxy coating. Progress in Organic Coatings, 2019, 127, 55-69.	3.9	9
80	Release of lanthanum cations loaded into piperazine-modified SBA-15 to inhibit the mild steel corrosion. Microporous and Mesoporous Materials, 2021, 315, 110908.	4.4	7
81	The Role of an In-Situ Grown Zn-Al Layered Double Hydroxide Conversion Coating in the Protective Properties of Epoxy Coating on Galvanized Steel. Journal of the Electrochemical Society, 2022, 169, 031511.	2.9	7
82	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.	3.9	7
83	Controlled oxidation of mild steel by potassium permanganate solution to enhance protective functioning of silane coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125251.	4.7	5
84	Improvement the protection performance of lanolin based temporary coating using benzotriazole and cerium (III) nitrate: Combined experimental and computational analysis. Progress in Organic Coatings, 2021, 151, 106085.	3.9	5
85	Nanoparticles incorporated in silane solâ€“gel coatings. , 2020, , 451-471.		5
86	Determination of Optimum Concentration of Benzimidazole Improving the Cathodic Disbonding Resistance of Epoxy Coating. Coatings, 2018, 8, 471.	2.6	4
87	Synthesis and Characterization of Zeolites for Anti-corrosion Application: The Effect of Precursor and Hydrothermal Treatment. Journal of Materials Engineering and Performance, 2018, 27, 4625-4634.	2.5	4
88	Acidic surface treatment of mild steel with enhanced corrosion protection for silane coatings application: The effect of zinc cations. Progress in Organic Coatings, 2021, 158, 106384.	3.9	4
89	Enhancement of corrosion resistance of mild steel in NaCl solution with an eco-friendly silane coating containing nanoclay and zinc acetylacetonate. Pigment and Resin Technology, 2018, 47, 424-430.	0.9	1
90	Electrochemical noise assessment of effect of sol parameters on the performance of an eco-friendly silane sol-gel coating on 304L stainless steel. Pigment and Resin Technology, 2018, 47, 444-452.	0.9	1