

Guichang Liu

List of Publications by Year in descending order

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43
papers

1,655
citations

331670

21
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

1565
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibiting the Corrosion-Promotion Activity of Graphene. <i>Chemistry of Materials</i> , 2015, 27, 2367-2373.	6.7	256
2	Superhydrophobic epoxy coating modified by fluorographene used for anti-corrosion and self-cleaning. <i>Applied Surface Science</i> , 2017, 401, 146-155.	6.1	212
3	Synthesis of low-electrical-conductivity graphene/pernigraniline composites and their application in corrosion protection. <i>Carbon</i> , 2014, 79, 605-614.	10.3	152
4	Liquid-phase exfoliated fluorographene as a two dimensional coating filler for enhanced corrosion protection performance. <i>Corrosion Science</i> , 2016, 103, 312-318.	6.6	94
5	An arbitrary Lagrangian-Eulerian model for modelling the time-dependent evolution of crevice corrosion. <i>Corrosion Science</i> , 2014, 78, 233-243.	6.6	76
6	The role of graphene loading on the corrosion-promotion activity of graphene/epoxy nanocomposite coatings. <i>Composites Part B: Engineering</i> , 2019, 173, 106916.	12.0	75
7	Active deposition of bis (8-hydroxyquinoline) magnesium coating for enhanced corrosion resistance of AZ91D alloy. <i>Corrosion Science</i> , 2014, 89, 127-136.	6.6	55
8	Chemical modification of hydrotalcite coating for enhanced corrosion resistance. <i>Corrosion Science</i> , 2015, 93, 256-266.	6.6	53
9	An arbitrary Lagrangian-Eulerian model for studying the influences of corrosion product deposition on bimetallic corrosion. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 829-840.	2.5	52
10	A mathematical model for modeling the formation of calcareous deposits on cathodically protected steel in seawater. <i>Electrochimica Acta</i> , 2012, 78, 597-608.	5.2	44
11	Partially dehydrated zinc hydroxide sulfate nanoplates reinforced coating for corrosion protection. <i>Chemical Engineering Journal</i> , 2019, 373, 8-22.	12.7	44
12	The role of corrosion inhibition in the mitigation of CaCO ₃ scaling on steel surface. <i>Corrosion Science</i> , 2018, 140, 182-195.	6.6	39
13	Calcium alginate gel capsules loaded with inhibitor for corrosion protection of downhole tube in oilfields. <i>Corrosion Science</i> , 2015, 90, 296-304.	6.6	38
14	Enhanced corrosion resistance of MgAl hydrotalcite conversion coating on aluminum by chemical conversion treatment. <i>Surface and Coatings Technology</i> , 2013, 235, 484-488.	4.8	36
15	Review on the corrosion-promotion activity of graphene and its inhibition. <i>Journal of Materials Science and Technology</i> , 2021, 91, 278-306.	10.7	35
16	Phase evolution from rod-like ZnO to plate-like zinc hydroxysulfate during electrochemical deposition. <i>Journal of Alloys and Compounds</i> , 2010, 493, 471-475.	5.5	31
17	Copper(II) 8-hydroxyquinolate 3D network film with corrosion inhibitor embedded for self-healing corrosion protection. <i>Corrosion Science</i> , 2013, 75, 38-46.	6.6	30
18	Tuning the Oxidation Degree of Graphite toward Highly Thermally Conductive Graphite/Epoxy Composites. <i>Chemistry of Materials</i> , 2018, 30, 7473-7483.	6.7	29

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19	Tuning the functionalization degree of graphene: Determining critical conditions for inhibiting the corrosion promotion activity of graphene/epoxy nanocomposite coatings. <i>Materials Letters</i> , 2019, 240, 262-266.	2.6	26
20	Corrosion-Induced Performance Degradation of Phosphorus-Containing Scale Inhibitors at Carbon Steel-Water Interface. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5183-5189.	3.7	25
21	Effect of chemical conversion induced by self-corrosion of zinc powders on enhancing corrosion protection performance of zinc-rich coatings. <i>Corrosion Science</i> , 2022, 194, 109942.	6.6	24
22	$\text{I}^{\pm}\text{-Mn}_2\text{O}_3$ -catalyzed adsorption reaction of benzotriazole for "smart" corrosion protection of copper. <i>Corrosion Science</i> , 2014, 82, 1-6.	6.6	21
23	Corrosion inhibitor embedded spherical micro-pits fabricated using cetyltrimethyl ammonium bromide as etching template for self-healing corrosion protection. <i>Corrosion Science</i> , 2014, 88, 444-451.	6.6	20
24	Controlled Preparation of MgAl-Layered Double Hydroxide/Graphene Hybrids and Their Applications for Metal Protection. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16516-16525.	3.7	18
25	Hexagonal boron nitride/poly(vinyl butyral) composite coatings for corrosion protection of copper. <i>Journal of Materials Science and Technology</i> , 2022, 96, 103-112.	10.7	18
26	Microporous/mesoporous cobalt hexacyanoferrate nanocubes for long-cycle life asymmetric supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14897-14905.	2.2	17
27	Tuning the oxygen reduction reaction activity of graphene through fluorination modification to inhibit its corrosion-promotion activity. <i>Corrosion Science</i> , 2020, 175, 108860.	6.6	15
28	A facile method for the modification of graphene nanosheets as promising anticorrosion pigments. <i>Materials Letters</i> , 2018, 228, 152-156.	2.6	13
29	Size-controlled graphite nanoplatelets: thermal conductivity enhancers for epoxy resin. <i>Journal of Materials Science</i> , 2019, 54, 10041-10054.	3.7	13
30	Fluorinated diols modified polythiourethane copolymer for marine antifouling coatings. <i>Progress in Organic Coatings</i> , 2020, 146, 105733.	3.9	13
31	Failure analysis of Erosion-Corrosion of the bend pipe at sewage stripping units. <i>Engineering Failure Analysis</i> , 2021, 129, 105675.	4.0	13
32	A Catalyst-Based Self-Sufficient System with Durable Self-Healing Functionality. <i>Advanced Engineering Materials</i> , 2016, 18, 923-931.	3.5	10
33	Self-unfolded graphene for corrosion protection. <i>Materials Letters</i> , 2021, 284, 128963.	2.6	10
34	Influences of semiconductor oxide fillers on the corrosion behavior of metals under coatings. <i>Electrochimica Acta</i> , 2018, 292, 425-434.	5.2	9
35	A Mechanically and Chemically Stable Superhydrophobic Coating for Preventing Marine Atmospheric Corrosion. <i>Surfaces and Interfaces</i> , 2021, 27, 101537.	3.0	9
36	Failure analysis of steam jet pump at top of crude oil vacuum distillation tower. <i>Engineering Failure Analysis</i> , 2019, 103, 9-19.	4.0	8

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37	Unfolding graphene nanosheets towards high barrier performance of epoxy/graphene nanocomposite coating. Composites Part A: Applied Science and Manufacturing, 2022, 153, 106732.	7.6	8
38	Study on cooperative removal of NOx in simulated flue gas by paired electrolysis. Separation and Purification Technology, 2022, 283, 120198.	7.9	4
39	Galvanic deposition of ZnO using mixed electrolyte and their photoluminescence properties. Thin Solid Films, 2011, 519, 4788-4792.	1.8	3
40	Beyond graphene: Anticorrosion performance of fluorographene-filled perfluoroalkoxy alkane composite coatings for condensing heat exchanges. Progress in Organic Coatings, 2022, 165, 106748.	3.9	2
41	High-Efficiency Preparation of Reduced Graphene Oxide by a Two-Step Reduction Method and Its Synergistic Enhancement of Thermally Conductive and Anticorrosive Performance for Epoxy Coatings. Industrial & Engineering Chemistry Research, 2022, 61, 3044-3054.	3.7	2
42	Excellent synergistic antifouling polymers based on controlled release of cinnamic acid and hydrolysis-induced fluorinated micro/nanostructure. Materials Chemistry and Physics, 2022, 282, 125913.	4.0	2
43	Global sensitivity analysis of influence parameters in pitting corrosion behavior of 304 stainless steel using adaptive neuro-fuzzy inference systems. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 805-815.	1.5	1