

Habib Ashassi-Sorkhabi

List of Publications by Year in descending order

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87
papers

4,854
citations

136950

32
h-index

95266

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87
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87
docs citations

87
times ranked

3516
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible-light photocatalytic degradation of textile dye by recyclable and recoverable AgBr@ZnO/chitosan beads. <i>Polymer Bulletin</i> , 2021, 78, 3869-3887.	3.3	10
2	The role of molecular structure in the functions of novel imidazole-based hole-transporting materials to predict the electrochemical properties of perovskite solar cells: A theoretical approach. <i>Journal of Molecular Liquids</i> , 2021, 327, 114853.	4.9	6
3	Superior potentials of hydrazone Schiff bases for efficient corrosion protection of mild steel in 1.0 M HCl. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 164-184.	2.6	14
4	TiO ₂ /AgBr Modified with PANI and RGO as a Visible Light-Driven Photocatalyst with Considerably Enhanced Photocatalytic Activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1323-1338.	2.2	2
5	Design of new anodic bimetallic nanocatalyst composed of Ni@Cu supported by reduced carbon quantum dots for the methanol oxidation reaction. <i>Diamond and Related Materials</i> , 2021, 115, 108348.	3.9	10
6	ZnO, AgCl and AgCl/ZnO nanocomposites incorporated chitosan in the form of hydrogel beads for photocatalytic degradation of MB, E. coli and S. aureus. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 1018-1028.	7.5	67
7	A low-cost platinum-free electrocatalyst based on carbon quantum dots decorated Ni@Cu hierarchical nanocomposites for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19324-19334.	7.1	16
8	Chitosan, its derivatives and composites with superior potentials for the corrosion protection of steel alloys: A comprehensive review. <i>Carbohydrate Polymers</i> , 2020, 237, 116110.	10.2	89
9	Influence of fluid flow on the performance of polyethylene glycol as a green corrosion inhibitor. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 1653-1663.	2.6	9
10	Nickel nanoparticles decorated on carbon quantum dots as a novel non-platinum catalyst for methanol oxidation; a green, low-cost, electrochemically-synthesized electrocatalyst. <i>Chemical Engineering Science</i> , 2020, 217, 115534.	3.8	24
11	Incorporation of organic/inorganic materials into polypyrrole matrix to reinforce its anticorrosive properties for the protection of steel alloys: A review. <i>Journal of Molecular Liquids</i> , 2020, 309, 113085.	4.9	46
12	Addition of Diphenylamine Branches: An Efficient Approach to Highly Improve the Hole-Transporting Property of Phenylazo-Indole Components for Use in Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20136-20141.	3.1	6
13	Evaluation of the performance of stilbene-based hole transport materials with an emphasis on their configuration for use in perovskite solar cells. <i>Solar Energy</i> , 2019, 188, 951-957.	6.1	10
14	Salt-nanoparticle systems incorporated into sol-gel coatings for corrosion protection of AZ91 magnesium alloy. <i>Progress in Organic Coatings</i> , 2019, 135, 475-482.	3.9	25
15	Fabrication and electrochemical kinetics studies of reduced carbon quantum dots-supported palladium nanoparticles as bifunctional catalysts in methanol oxidation and hydrogen evolution reactions. <i>Synthetic Metals</i> , 2019, 254, 153-163.	3.9	30
16	Structural effect on the thermodynamic and electrochemical properties of pyrene-based hole transport materials. <i>Journal of Molecular Liquids</i> , 2019, 285, 338-346.	4.9	19
17	Cross-linked chitosan in nano and bead scales as drug carriers for betamethasone and tetracycline. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 581-588.	7.5	34
18	On the first coordination shell of lithium ion in linear carbonate solvents as electrolyte model for lithium-ion batteries: a computational study. <i>Ionics</i> , 2019, 25, 3705-3713.	2.4	1

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19	Hybrid sol-gel coatings based on silanes-amino acids for corrosion protection of AZ91 magnesium alloy: Electrochemical and DFT insights. <i>Progress in Organic Coatings</i> , 2019, 131, 191-202.	3.9	59
20	Effect of amino acids and montmorillonite nanoparticles on improving the corrosion protection characteristics of hybrid sol-gel coating applied on AZ91 Mg alloy. <i>Materials Chemistry and Physics</i> , 2019, 225, 298-308.	4.0	52
21	Effect of electron-donating groups on the electrochemical and optical properties of indoline substituents as hole transport materials: A computational study. <i>Solar Energy</i> , 2019, 180, 146-151.	6.1	21
22	A new insight into ionic liquid-water mixtures used as absorbent-refrigerant pairs: Theoretical and potentiometric aspects. <i>Journal of Molecular Liquids</i> , 2018, 251, 190-200.	4.9	6
23	One step electrochemical route to the fabrication of highly ordered array of cylindrical nano porous structure and its electrocatalytic performance toward efficient hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 189-197.	9.4	5
24	How the change of OMe substituent position affects the performance of spiro-OMeTAD in neutral and oxidized forms: theoretical approaches. <i>RSC Advances</i> , 2018, 8, 18234-18242.	3.6	32
25	Design of two novel hole transport materials via replacing the core of spiro-OMeTAD with tetrathiafulvalene and tetraazafulvalene for application in perovskite solar cells. <i>Solar Energy</i> , 2018, 173, 132-138.	6.1	32
26	Application of Pitzer and six local composition models to correlate the mean ionic activity coefficients of aqueous 1-butyl-3-methylimidazolium bromide ionic liquid solutions obtained by EMF measurements. <i>Journal of Chemical Thermodynamics</i> , 2017, 110, 71-78.	2.0	12
27	Electrosynthesis of polypyrrole-nanodiamond composite film under ultrasound irradiation: Promotion for methanol electrooxidation by gold and Cu ₂ O nanostructures. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 263-270.	5.3	11
28	Comparative Evaluation of Six Electrolyte Local Composition Activity Coefficient Models Applied to Binary Aqueous Solutions of Ionic Liquids. <i>Journal of Solution Chemistry</i> , 2017, 46, 1490-1500.	1.2	2
29	Ultrasound-assisted synthesis of PPyCuS@GO/Pt nanocomposite and investigation of its electrocatalytic behavior towards photo-hydrogen evolution. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2448-2458.	6.7	5
30	Fabrication of bridge like Pt@MWCNTs/CoS ₂ electrocatalyst on conductive polymer matrix for electrochemical hydrogen evolution. <i>Chemical Engineering Journal</i> , 2017, 308, 275-288.	12.7	40
31	Electrochemical synthesis of three-dimensional porous networks of nickel with different micro-nano structures for the fabrication of Ni/MnOx nanocomposites with enhanced supercapacitive performance. <i>Applied Surface Science</i> , 2017, 419, 165-176.	6.1	29
32	Analysis of electrochemical noise data in both time and frequency domains to evaluate the effect of ZnO nanopowder addition on the corrosion protection performance of epoxy coatings. <i>Arabian Journal of Chemistry</i> , 2016, 9, S1320-S1327.	4.9	39
33	Activity Coefficient Modeling of Ionic Liquids in Water Based on Ion Selective Electrode Potential Measurements. <i>Journal of Solution Chemistry</i> , 2016, 45, 831-839.	1.2	8
34	Tartaric Acid as a Non-toxic and Environmentally-Friendly Anti-scaling Material for Using in Cooling Water Systems: Electrochemical and Surface Studies. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4230-4238.	2.5	4
35	A facile electrochemical strategy for synthesis of 3D nanodimensional polypyrrole structures using self-assembled layers of pyrrole monomers. <i>Progress in Organic Coatings</i> , 2016, 101, 130-141.	3.9	2
36	Thermodynamic Study of Aqueous Solutions of 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid Using Potentiometric Measurements at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 3542-3547.	1.9	4

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37	Sonoelectrosynthesized polypyrrole-graphene oxide nanocomposite modified by carbon nanotube and Cu ₂ O nanoparticles on copper electrode for electrocatalytic oxidation of methanol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 69, 118-130.	5.3	16
38	Corrosion Protection Properties of PPy-ND Composite Coating: Sonoelectrochemical Synthesis and Design of Experiment. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 611-622.	2.5	11
39	Optimization of a Three-Component Green Corrosion Inhibitor Mixture for Using in Cooling Water by Experimental Design. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1416-1425.	2.5	8
40	The use of a hierarchically platinum-free electrode composed of tin oxide decorated polypyrrole on nanoporous copper in catalysis of methanol electrooxidation. <i>Thin Solid Films</i> , 2016, 598, 6-15.	1.8	13
41	Pomegranate (<i>Punica granatum</i>) Peel Extract as a Green Corrosion Inhibitor for Mild Steel in Hydrochloric Acid Solution. <i>International Journal of Corrosion</i> , 2015, 2015, 1-6.	1.1	19
42	Sonoelectrochemical Synthesis of PPy-MWCNTs-Chitosan Nanocomposite Coatings: Characterization and Corrosion Behavior. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 385-392.	2.5	30
43	Potentiostatic and cyclic voltammetric deposition of nanostructured manganese oxide for supercapacitor applications. <i>Current Applied Physics</i> , 2014, 14, 187-191.	2.4	21
44	Protective properties of PPy-Au nanocomposite coatings prepared by sonoelectrochemistry and optimized by the Taguchi method. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	5
45	Effects of Solution Hydrodynamics on Corrosion Inhibition of Steel by Citric Acid in Cooling Water. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 2992-3000.	2.5	15
46	Corrosion protection of mild steel by nano-colloidal polyaniline/nanodiamond composite coating in NaCl solution. <i>Journal of Coatings Technology Research</i> , 2014, 11, 371-380.	2.5	24
47	Electrochemical preparation of nano-colloidal polyaniline in polyacid matrix and its application to the corrosion protection of 430SS. <i>Synthetic Metals</i> , 2014, 195, 29-35.	3.9	21
48	Sonoelectrochemical synthesis, optimized by Taguchi method, and corrosion behavior of polypyrrole-silicon nitride nanocomposite on St-12 steel. <i>Synthetic Metals</i> , 2014, 195, 1-8.	3.9	21
49	Corrosion resistance enhancement of electroless Ni-P coating by incorporation of ultrasonically dispersed diamond nanoparticles. <i>Corrosion Science</i> , 2013, 77, 185-193.	6.6	139
50	Corrosion Inhibition of Mild Steel by Safflower (<i>Carthamus tinctorius</i>) Extract: Polarization, EIS, AFM, SEM, EDS, and Artificial Neural Network Modeling. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 964-973.	2.4	12
51	Optimization of electrocoagulation process for removal of an azo dye using response surface methodology and investigation on the occurrence of destructive side reactions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 64, 68-78.	3.6	123
52	Electro-Synthesis of Nano-Colloidal PANI/ND Composite for Enhancement of Corrosion-Protection Effect of PANI Coatings. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3755-3761.	2.5	23
53	Preparation Ce(III) conversion coatings on electrodeposited Zn-Ni alloy and comparison of their corrosion performance and morphology with Cr(VI) conversion coatings. <i>Surface Engineering</i> , 2013, 29, 1-5.	2.2	10
54	The effect of <i>Pseudoxanthomonas</i> sp. as manganese oxidizing bacterium on the corrosion behavior of carbon steel. <i>Materials Science and Engineering C</i> , 2012, 32, 303-309.	7.3	27

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55	Corrosion behavior of carbon steel in the presence of two novel iron-oxidizing bacteria isolated from sewage treatment plants. <i>Biodegradation</i> , 2012, 23, 69-79.	3.0	47
56	De-alloying of 316 stainless steel in the presence of a mixture of metal-oxidizing bacteria. <i>Corrosion Science</i> , 2011, 53, 4282-4290.	6.6	54
57	Influence of anions on Reactive Red 43 removal in electrochemical coagulation process. <i>Electrochimica Acta</i> , 2011, 56, 1373-1380.	5.2	12
58	Effect of Solution Hydrodynamics on Corrosion Inhibition Performance of Zinc Sulfate in Neutral Solution. <i>Journal of the Electrochemical Society</i> , 2011, 159, C1-C7.	2.9	16
59	Electrochemical studies of adsorption and inhibitive performance of basic yellow 28 dye on mild steel corrosion in Acid solutions. <i>Acta Chimica Slovenica</i> , 2011, 58, 270-7.	0.6	14
60	Electrochemical corrosion behavior of Al7075 rotating disc electrode in neutral solution containing l-glutamine as a green inhibitor. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 631-637.	2.9	23
61	Corrosion inhibition of mild steel in acidic media by [BMIm]Br Ionic liquid. <i>Materials Chemistry and Physics</i> , 2009, 114, 267-271.	4.0	128
62	Corrosion inhibition of mild steel in hydrochloric acid by betanin as a green inhibitor. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1297-1301.	2.5	32
63	Corrosion inhibition of mild steel in acidic media by Basic yellow 13 dye. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1497-1501.	2.9	37
64	Influence of flow on the corrosion inhibition of St52-3 type steel by potassium hydrogen-phosphate. <i>Corrosion Science</i> , 2009, 51, 1828-1835.	6.6	26
65	Analysis of raw and trend removed EN data in time domain to evaluate corrosion inhibition effects of New Fuchsin dye on steel corrosion and comparison of results with EIS. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1545-1552.	2.9	42
66	Effect of hydrodynamic conditions on the inhibition performance of l-methionine as a "green" inhibitor. <i>Electrochimica Acta</i> , 2008, 54, 162-167.	5.2	141
67	Effect of rare earth (Ce, La) compounds in the electroless bath on the plating rate, bath stability and microstructure of the nickel-phosphorus deposits. <i>Surface and Coatings Technology</i> , 2008, 202, 1615-1620.	4.8	48
68	Electrochemical studies of Zn-Ni alloy coatings from non-cyanide alkaline bath containing tartrate as complexing agent. <i>Surface and Coatings Technology</i> , 2008, 202, 2897-2904.	4.8	91
69	EN, EIS and polarization studies to evaluate the inhibition effect of 3H-phenothiazin-3-one, 7-dimethylamin on mild steel corrosion in 1M HCl solution. <i>Corrosion Science</i> , 2008, 50, 3363-3370.	6.6	246
70	Inhibiting effects of some synthesized organic compound on the corrosion of St-3 in 0.1N H ₂ SO ₄ solution. <i>Electrochimica Acta</i> , 2007, 52, 5238-5241.	5.2	19
71	Corrosion Protection of Electro-Galvanized Steel by Green Conversion Coatings. <i>Journal of Rare Earths</i> , 2007, 25, 537-543.	4.8	62
72	Phosphatation of iron powder metallurgical samples for corrosion protection. <i>Journal of the Iranian Chemical Society</i> , 2007, 4, 72-77.	2.2	7

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73	The effect of some Schiff bases on the corrosion of aluminum in hydrochloric acid solution. Applied Surface Science, 2006, 252, 4039-4047.	6.1	202
74	Corrosion inhibition of carbon steel in hydrochloric acid by some polyethylene glycols. Electrochimica Acta, 2006, 51, 3848-3854.	5.2	172
75	Effect of ultrasonically induced cavitation on inhibition behavior of polyethylene glycol on carbon steel corrosion. Ultrasonics Sonochemistry, 2006, 13, 180-188.	8.2	20
76	The inhibition effect of some amino acids towards the corrosion of aluminum in 1M HCl+1M H ₂ SO ₄ solution. Applied Surface Science, 2005, 249, 408-418.	6.1	177
77	Evaluation of initial deposition rate of electroless Ni-P layers by QCM method. Electrochimica Acta, 2005, 50, 5526-5532.	5.2	24
78	Corrosion inhibition of mild steel by some schiff base compounds in hydrochloric acid. Applied Surface Science, 2005, 239, 154-164.	6.1	437
79	Effect of some pyrimidinic Schiff bases on the corrosion of mild steel in hydrochloric acid solution. Electrochimica Acta, 2005, 50, 3446-3452.	5.2	319
80	Inhibition effect of polyethylene glycol on the corrosion of carbon steel in sulphuric acid. Materials Chemistry and Physics, 2005, 92, 480-486.	4.0	74
81	Decolorization of dye solution containing Acid Red 14 by electrocoagulation with a comparative investigation of different electrode connections. Journal of Hazardous Materials, 2004, 112, 55-62.	12.4	274
82	Effect of coating time and heat treatment on structures and corrosion characteristics of electroless Ni-P alloy deposits. Surface and Coatings Technology, 2004, 176, 318-326.	4.8	284
83	Investigation of inhibition effect of some amino acids against steel corrosion in HCl solution. Applied Surface Science, 2004, 225, 176-185.	6.1	321
84	Electroless deposition of Ni-Cu-P alloy and study of the influences of some parameters on the properties of deposits. Applied Surface Science, 2002, 185, 155-160.	6.1	49
85	Polarization and impedance methods in corrosion inhibition study of carbon steel by amines in petroleum-water mixtures. Electrochimica Acta, 2002, 47, 2239-2244.	5.2	60
86	Zinc-nickel alloy coatings electrodeposited from a chloride bath using direct and pulse current. Surface and Coatings Technology, 2001, 140, 278-283.	4.8	73
87	Thermodynamic and kinetic insights into the role of amino acids in improving the adhesion of iota-carrageenan as a natural corrosion inhibitor to the aluminum surface. Journal of Adhesion Science and Technology, 0, , 1-15.	2.6	4