

# 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

68  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion inhibition of mild steel by some schiff base compounds in hydrochloric acid. Applied Surface Science, 2005, 239, 154-164.	6.1	437
2	Investigation of inhibition effect of some amino acids against steel corrosion in HCl solution. Applied Surface Science, 2004, 225, 176-185.	6.1	321
3	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
4	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
5	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
6	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. Corrosion Science, 2008, 50, 3363-3370.	6.6	246
7	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
8	The inhibition effect of some amino acids towards the corrosion of aluminum in 1M HCl+1M H <sub>2</sub> SO <sub>4</sub> solution. Applied Surface Science, 2005, 249, 408-418.	6.1	177
9	Corrosion inhibition of carbon steel in hydrochloric acid by some polyethylene glycols. Electrochimica Acta, 2006, 51, 3848-3854.	5.2	172
10	Effect of hydrodynamic conditions on the inhibition performance of L-methionine as a "green" inhibitor. Electrochimica Acta, 2008, 54, 162-167.	5.2	141
11	Corrosion resistance enhancement of electroless Ni-P coating by incorporation of ultrasonically dispersed diamond nanoparticles. Corrosion Science, 2013, 77, 185-193.	6.6	139
12	Corrosion inhibition of mild steel in acidic media by [BMIm]Br ionic liquid. Materials Chemistry and Physics, 2009, 114, 267-271.	4.0	128
13	Optimization of electrocoagulation process for removal of an azo dye using response surface methodology and investigation on the occurrence of destructive side reactions. Chemical Engineering and Processing: Process Intensification, 2013, 64, 68-78.	3.6	123
14	Electrochemical studies of Zn-Ni alloy coatings from non-cyanide alkaline bath containing tartrate as complexing agent. Surface and Coatings Technology, 2008, 202, 2897-2904.	4.8	91
15	Chitosan, its derivatives and composites with superior potentials for the corrosion protection of steel alloys: A comprehensive review. Carbohydrate Polymers, 2020, 237, 116110.	10.2	89
16	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
17	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
18	ZnO, AgCl and AgCl/ZnO nanocomposites incorporated chitosan in the form of hydrogel beads for photocatalytic degradation of MB, E. coli and S. aureus. International Journal of Biological Macromolecules, 2020, 147, 1018-1028.	7.5	67

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19	Corrosion Protection of Electro-Galvanized Steel by Green Conversion Coatings. <i>Journal of Rare Earths</i> , 2007, 25, 537-543.	4.8	62
20	Polarization and impedance methods in corrosion inhibition study of carbon steel by amines in petroleum-water mixtures. <i>Electrochimica Acta</i> , 2002, 47, 2239-2244.	5.2	60
21	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
22	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
23	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
24	Electroless deposition of Ni-Cu-P alloy and study of the influences of some parameters on the properties of deposits. <i>Applied Surface Science</i> , 2002, 185, 155-160.	6.1	49
25	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
26	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
27	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
28	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
29	Fabrication of bridge like Pt@MWCNTs/CoS <sub>2</sub> electrocatalyst on conductive polymer matrix for electrochemical hydrogen evolution. <i>Chemical Engineering Journal</i> , 2017, 308, 275-288.	12.7	40
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	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
42	Evaluation of initial deposition rate of electroless Ni-P layers by QCM method. <i>Electrochimica Acta</i> , 2005, 50, 5526-5532.	5.2	24
43	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
44	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
45	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
46	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
47	Potentiostatic and cyclic voltammetric deposition of nanostructured manganese oxide for supercapacitor applications. <i>Current Applied Physics</i> , 2014, 14, 187-191.	2.4	21
48	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
49	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
50	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
51	Effect of ultrasonically induced cavitation on inhibition behavior of polyethylene glycol on carbon steel corrosion. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 180-188.	8.2	20
52	Inhibiting effects of some synthesized organic compound on the corrosion of St-3 in 0.1N H2SO4 solution. <i>Electrochimica Acta</i> , 2007, 52, 5238-5241.	5.2	19
53	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
54	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

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55	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
56	Sonoelectrosynthesized polypyrrole-graphene oxide nanocomposite modified by carbon nanotube and Cu <sub>2</sub> 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
57	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
58	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
59	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
60	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
61	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
62	Influence of anions on Reactive Red 43 removal in electrochemical coagulation process. <i>Electrochimica Acta</i> , 2011, 56, 1373-1380.	5.2	12
63	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
64	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
65	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
66	Electrosynthesis of polypyrrole-nanodiamond composite film under ultrasound irradiation: Promotion for methanol electrooxidation by gold and Cu <sub>2</sub> O nanostructures. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 263-270.	5.3	11
67	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
68	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
69	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
70	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
71	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
72	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

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73	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
74	Phosphatation of iron powder metallurgical samples for corrosion protection. <i>Journal of the Iranian Chemical Society</i> , 2007, 4, 72-77.	2.2	7
75	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
76	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
77	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
78	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
79	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
80	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
81	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
82	Thermodynamic Study of Aqueous Solutions of 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid Using Potentiometric Measurements at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 3542-3547.	1.9	4
83	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. <i>Journal of Adhesion Science and Technology</i> , 0, , 1-15.	2.6	4
84	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
85	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
86	TiO <sub>2</sub> /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
87	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