Sherif Zein El Abedin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers6,676
citations43
h-index80
g-index123
ext. papers7,076
ext. citations4
avg, IF6.01
L-index

#	Paper	IF	Citations
120	Electrochemical synthesis of nanowires and macroporous CuSn alloy from ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2022 , 26, 783-789	2.6	О
119	Utilization of 1-butylpyrrolidinium Chloride Ionic Liquid as an Eco-friendly Corrosion Inhibitor and Biocide for Oilfield Equipment: Combined Weight Loss, Electrochemical and SEM Studies. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021 , 235, 377-406	3.1	4
118	Studies on the Antibacterial Influence of Two Ionic Liquids and their Corrosion Inhibition Performance. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1444	2.6	13
117	Fabrication of TiAlCu new alloys by inductive sintering, characterization, and corrosion evaluation. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 4302-4311	5.5	13
116	Influence of atmospheric water uptake on the hydrolysis of stannous chloride in the ionic liquid 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate. <i>Journal of Molecular Liquids</i> , 2017 , 230, 209-21	136	3
115	Plating Protocols 2017 , 469-482		
114	Effect of Annealing Temperature on the Corrosion Protection of Hot Swaged Ti-54M Alloy in 2 M HCl Pickling Solutions. <i>Metals</i> , 2017 , 7, 29	2.3	6
113	Effect of Nickel Content on the Corrosion Resistance of Iron-Nickel Alloys in Concentrated Hydrochloric Acid Pickling Solutions. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-8	1.5	13
112	Sonochemical Synthesis of Nanostructured ZnO/Ag Composites in an Ionic Liquid. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 1733-1744	3.1	9
111	Anti-bacterial and anti-corrosion effects of the ionic liquid 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate. <i>Journal of Molecular Liquids</i> , 2015 , 211, 363-369	6	67
110	Dissolution of zinc oxide in a protic ionic liquid with the 1-methylimidazolium cation and electrodeposition of zinc from ZnO/ionic liquid and ZnO/ionic liquid ater mixtures. <i>Electrochemistry Communications</i> , 2015 , 58, 46-50	5.1	38
109	Electrodeposition of Zinctopper and Zinctin Films and Free-Standing Nanowire Arrays from Ionic Liquids. <i>ChemElectroChem</i> , 2015 , 2, 389-395	4.3	10
108	Electrodeposition of Ge, Sn and GexSn1-x from two different room temperature ionic liquids. Journal of Solid State Electrochemistry, 2015 , 19, 785-793	2.6	13
107	Template-Free Electrodeposition of SnSi Nanowires from an Ionic Liquid. <i>ChemElectroChem</i> , 2015 , 2, 1361-1365	4.3	19
106	Template-Free Electrodeposition of Zinc Nanowires from an Ionic Liquid. <i>ChemElectroChem</i> , 2015 , 2, 1366-1371	4.3	11
105	Corrosion Inhibition of Cast Iron in Arabian Gulf Seawater by Two Different Ionic Liquids. <i>Materials</i> , 2015 , 8, 3883-3895	3.5	24
104	Electrochemical and spectroscopic study of Zn(ii) coordination and Zn electrodeposition in three ionic liquids with the trifluoromethylsulfonate anion, different imidazolium ions and their mixtures with water. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15945-52	3.6	27

(2013-2015)

103	Electrodeposition and stripping behavior of a zinc/polystyrene composite electrode in an ionic liquid. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 1453-1461	2.6	9
102	Raman and FTIR spectroscopic studies of 1-ethyl-3-methylimidazolium trifluoromethylsulfonate, its mixtures with water and the solvation of zinc ions. <i>ChemPhysChem</i> , 2015 , 16, 970-7	3.2	43
101	Electrodeposition of Crystalline Gallium-Doped Germanium and SixGe1 from an Ionic Liquid at Room Temperature. <i>ChemElectroChem</i> , 2015 , 2, 571-577	4.3	6
100	Electrodeposition of Niobium from 1-Butyl-1-Methylpyrrolidinium bis(trifluoromethylsulfonyl)amide Ionic Liquid. <i>Electrochimica Acta</i> , 2014 , 129, 312-317	6.7	16
99	Synthesis of Silicon and Germanium Nanowire Assemblies by Template-Assisted Electrodeposition from an Ionic Liquid. <i>Australian Journal of Chemistry</i> , 2014 , 67, 875	1.2	7
98	Electrodeposition of iron and iron-aluminium alloys in an ionic liquid and their magnetic properties. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9317-26	3.6	19
97	Electrochemical synthesis of lithium nanotubes from an ionic liquid. <i>Electrochemistry Communications</i> , 2014 , 48, 91-94	5.1	5
96	Effect of dissolved LiCl on the ionic liquid-Au(111) interface: an in situ STM study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 284111	1.8	15
95	In situ STM study of zinc electrodeposition on Au(111) from the ionic liquid 1-ethyl-3-methylimidazolium trifluoromethylsulfonate. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2581-2587	2.6	7
94	Electrodeposition and magnetic characterization of iron and iron-silicon alloys from the ionic liquid 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate. <i>ChemPhysChem</i> , 2014 , 15, 3515-22	3.2	7
93	Electrodeposition and stripping of zinc from an ionic liquid polymer gel electrolyte for rechargeable zinc-based batteries. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2683-2691	2.6	22
92	Electrochemical synthesis of freestanding tin nanowires from ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 951-957	2.6	12
91	A simple and fast technique to grow free-standing germanium nanotubes and core-shell structures from room temperature ionic liquids. <i>Electrochimica Acta</i> , 2014 , 121, 154-158	6.7	26
90	Challenges in the electrochemical coating of high-strength steel screws by aluminum in an acidic ionic liquid composed of 1-Ethyl-3-methylimidazolium chloride and AlCl3. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 1127-1132	2.6	10
89	Electrodeposition of silicon from three different ionic liquids: possible influence of the anion on the deposition process. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2823-2832	2.6	41
88	In Situ Spectroelectrochemical Investigation of Ge, Si, and SixGe1⊠ Electrodeposition from an Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1722-1727	3.8	24
87	Electrodeposition of zinc films from ionic liquids and ionic liquid/water mixtures. <i>Electrochimica Acta</i> , 2013 , 89, 635-643	6.7	116
86	Template-assisted electrodeposition of highly ordered macroporous zinc structures from an ionic liquid. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 1185-1188	2.6	11

85	Electrochemical synthesis of vertically aligned zinc nanowires using track-etched polycarbonate membranes as templates. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 11362-7	3.6	15
84	Insight into the Electrodeposition of SixGe1\text{\text{\text{B}Thin Films with Variable Compositions from a Room Temperature Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26070-26076	3.8	14
83	Fabrication of highly ordered macroporous copper films using template-assisted electrodeposition in an ionic liquid. <i>Electrochemistry Communications</i> , 2012 , 18, 70-73	5.1	20
82	Electrodeposition of aluminium from 1-butyl-1-methylpyrrolidinium chloride/AlCl3 and mixtures with 1-ethyl-3-methylimidazolium chloride/AlCl3. <i>Electrochimica Acta</i> , 2012 , 70, 210-214	6.7	41
81	Free-standing aluminium nanowire architectures made in an ionic liquid. <i>ChemPhysChem</i> , 2012 , 13, 250-	53.2	36
80	Electrochemical behavior of aluminum and some of its alloys in chloroaluminate ionic liquids: electrolytic extraction and electrorefining. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 775-783	2.6	14
79	UV-Assisted Electrodeposition of Germanium from an Air- and Water-Stable Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17739-17745	3.8	22
78	Electrodeposition of nanocrystalline aluminium, copper, and copper\(\begin{align*} \) luminium alloys from 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate ionic liquid. \(\begin{align*} \) Journal of Solid State \(\text{Electrochemistry}, \) 2012, 16, 3487-3497	2.6	32
77	Electrochemical synthesis of PEDOT and PPP macroporous films and nanowire architectures from ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 3479-3485	2.6	11
76	Electrodeposition of Lithium in Polystyrene Sphere Opal Structures on Copper from an Ionic Liquid. <i>Australian Journal of Chemistry</i> , 2012 , 65, 1507	1.2	8
75	Aluminium Nanowire Electrodes for Lithium-Ion Batteries. Australian Journal of Chemistry, 2012 , 65, 152	29 .2	27
74	Electrodeposition from Ionic Liquids: Interface Processes, Ion Effects, and Macroporous Structures 2012 , 1-27		4
73	Electrodeposition of Lithium/Polystyrene Composite Electrodes from an Ionic Liquid: First Attempts. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012 , 226, 121-128	3.1	8
72	In situ STM, AFM and DTS study of the interface 1-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate/Au(1 1 1). <i>Electrochimica Acta</i> , 2012 , 82, 48-59	6.7	51
71	The interface ionic liquid(s)/electrode(s): in situ STM and AFM measurements. <i>Faraday Discussions</i> , 2012 , 154, 221-33; discussion 313-33, 465-71	3.6	154
70	An in situ STM and DTS study of the extremely pure [EMIM]FAP/Au(111) interface. <i>ChemPhysChem</i> , 2012 , 13, 1736-42	3.2	22
69	An in situ STM/AFM and impedance spectroscopy study of the extremely pure 1-butyl-1-methylpyrrolidinium tris(pentafluoroethyl)trifluorophosphate/Au(111) interface: potential dependent solvation layers and the herringbone reconstruction. <i>Physical Chemistry</i>	3.6	204
68	Interfacial electrochemistry and electrodeposition from some ionic liquids: In situ scanning tunneling microscopy, plasma electrochemistry, selenium and macroporous materials. Electrochimica Acta, 2011 , 56, 10295-10305	6.7	29

(2008-2011)

67	Preparation and characterization of zirconia and mixed zirconia/titania in ionic liquids. <i>Journal of Materials Science</i> , 2011 , 46, 3330-3336	4.3	14
66	Plasma Electrochemistry in 1-Butyl-3-methylimidazolium dicyanamide: Copper Nanoparticles from CuCl and CuCl2. <i>Plasma Processes and Polymers</i> , 2011 , 8, 32-37	3.4	31
65	Electrochemical synthesis of gallium nanowires and macroporous structures in an ionic liquid. <i>ChemPhysChem</i> , 2011 , 12, 2751-4	3.2	7
64	Electrochemical synthesis of macroporous aluminium films and their behavior towards lithium deposition/stripping. <i>Journal of Power Sources</i> , 2011 , 196, 2879-2883	8.9	43
63	Electrodeposition of nanocrystalline aluminium from a chloroaluminate ionic liquid. <i>Electrochemistry Communications</i> , 2010 , 12, 1084-1086	5.1	73
62	Do solvation layers of ionic liquids influence electrochemical reactions?. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1724-32	3.6	222
61	Plasma electrochemistry in ionic liquids: deposition of copper nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1750-5	3.6	92
60	Unexpected decomposition of the bis (trifluoromethylsulfonyl) amide anion during electrochemical copper oxidation in an ionic liquid. <i>Electrochemistry Communications</i> , 2010 , 12, 909-911	5.1	22
59	An experimental and theoretical study of the aluminium species present in mixtures of AlCl3 with the ionic liquids [BMP]Tf2N and [EMIm]Tf2N. <i>Chemistry - A European Journal</i> , 2009 , 15, 3426-34	4.8	61
58	In situ STM and EQCM studies of tantalum electrodeposition from TaF5 in the air- and water-stable ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide. <i>Electrochimica Acta</i> , 2009 , 54, 1519-1528	6.7	56
57	Electrodeposition of nanocrystalline silver films and nanowires from the ionic liquid 1-ethyl-3-methylimidazolium trifluoromethylsulfonate. <i>Electrochimica Acta</i> , 2009 , 54, 5673-5677	6.7	68
56	In situ STM studies of Ga electrodeposition from GaCl3 in the air- and water-stable ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide. <i>Electrochimica Acta</i> , 2009 , 55, 218-226	6.7	38
55	AFM and STM Studies on the Surface Interaction of [BMP]TFSA and [EMIm]TFSA Ionic Liquids with Au(111). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13266-13272	3.8	274
54	Pronounced structure in confined aprotic room-temperature ionic liquids. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7049-52	3.4	158
53	In situ STM investigation of the lithium underpotential deposition on Au(111) in the air- and water-stable ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11140-5	3.6	47
52	Template assisted electrodeposition of germanium and silicon nanowires in an ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 6233-7	3.6	84
51	On the electrodeposition of titanium in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2189	- 9 .Ø	76
50	Electrodeposition of Ge, Si and Si x Ge 1-x from an air- and water-stable ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4650-7	3.6	97

49	Surface Analysis of Nanoscale Aluminium and Silicon Films Made by Electrodeposition in Ionic Liquids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2008 , 222, 671-686	3.1	18
48	Electrodeposition of tantalum and aluminium in ionic liquid [Py1,4] TFSA. <i>Transactions of the Institute of Metal Finishing</i> , 2008 , 86, 220-226	1.3	6
47	Electrodeposition of Nanocrystalline Aluminum: Breakdown of Imidazolium Cations Modifies the Crystal Size. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D357	3.9	34
46	Electrosynthesis of poly(para)phenylene in an ionic liquid: cyclic voltammetry and in situ STM/tunnelling spectroscopy studies. <i>ChemPhysChem</i> , 2008 , 9, 439-44	3.2	30
45	Studies on the Electrodeposition of Magnesium in Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D91	3.9	95
44	Ionic liquids: the link to high-temperature molten salts?. Accounts of Chemical Research, 2007, 40, 1106-	·1 3 4.3	144
43	Electrodeposition of Al in 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide and 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ionic liquids: in situ STM and EQCM studies. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4693-704	3.4	71
42	Ionic liquids as green electrolytes for the electrodeposition of nanomaterials. <i>Green Chemistry</i> , 2007 , 9, 549-553	10	127
41	Employing plasmas as gaseous electrodes at the free surface of ionic liquids: deposition of nanocrystalline silver particles. <i>ChemPhysChem</i> , 2007 , 8, 50-3	3.2	114
40	Electrodeposition of selenium, indium and copper in an air- and water-stable ionic liquid at variable temperatures. <i>Electrochimica Acta</i> , 2007 , 52, 2746-2754	6.7	167
39	AFM-Assisted Investigation of the Corrosion Behaviour of Magnesium and AZ91 Alloys in an Ionic Liquid with Varying Water Content. <i>Australian Journal of Chemistry</i> , 2007 , 60, 35	1.2	34
38	In Situ Scanning Tunnelling Microscopy in Ionic Liquids: Prospects and Challenges. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 1407-1427	3.1	9
37	Electropolymerization of Benzene in an Ionic Liquid. ACS Symposium Series, 2007, 28-35	0.4	
36	Electrodeposition of metals and semiconductors in air- and water-stable ionic liquids. <i>ChemPhysChem</i> , 2006 , 7, 58-61	3.2	192
35	Electrodeposition of nano- and microcrystalline aluminium in three different air and water stable ionic liquids. <i>ChemPhysChem</i> , 2006 , 7, 1535-43	3.2	185
34	Probing Lithium and Alumina Impurities in Air- and Water Stable Ionic Liquids by Cyclic Voltammetry and In Situ Scanning Tunneling Microscopy. <i>Zeitschrift Fur Physikalische Chemie</i> , 2006 , 220, 1377-1394	3.1	60
33	Electrochemical behaviour of Al and some of its alloys in chloride solutions 2006 , 633-638		1
32	Air and water stable ionic liquids in physical chemistry. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 210	13:166	956

(2002-2006)

31	In situ STM investigation of gold reconstruction and of silicon electrodeposition on Au(111) in the room temperature ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide. Journal of Physical Chemistry B, 2006 , 110, 6250-6	3.4	135	
30	Coating of Mild Steel by Aluminium in the Ionic Liquid [EMIm]Tf2N and its Corrosion Performance. <i>Zeitschrift Fur Physikalische Chemie</i> , 2006 , 220, 1293-1308	3.1	9	
29	Electrochemical Deposition of Nanostructured Metals and Alloys from Ionic Liquids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2006 , 220, 1275-1291	3.1	12	
28	Electroplating of mild steel by aluminium in a first generation ionic liquid: A green alternative to commercial Al-plating in organic solvents. <i>Surface and Coatings Technology</i> , 2006 , 201, 1352-1356	4.4	140	
27	An EQCM study of the electropolymerization of benzene in an ionic liquid and ion exchange characteristics of the resulting polymer film. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7159-68	3.4	54	
26	Electroreduction of tantalum fluoride in a room temperature ionic liquid at variable temperatures. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 2333-9	3.6	103	
25	A study on the electrodeposition of tantalum on NiTi alloy in an ionic liquid and corrosion behaviour of the coated alloy. <i>Electrochemistry Communications</i> , 2005 , 7, 941-946	5.1	95	
24	Additive free electrodeposition of nanocrystalline aluminium in a water and air stable ionic liquid. <i>Electrochemistry Communications</i> , 2005 , 7, 1111-1116	5.1	144	
23	Characterization of some aluminium alloys for application as anodes in alkaline batteries. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 331-335	2.6	69	
22	Electrochemical Behaviour of Al, Al I h and Al I Ialh Alloys in Chloride Solutions Containing Zinc Ions. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 1071-1080	2.6	42	
21	Electrodeposition of nanoscale silicon in a room temperature ionic liquid. <i>Electrochemistry Communications</i> , 2004 , 6, 510-514	5.1	171	
20	Electropolymerization of benzene in a room temperature ionic liquid. <i>Electrochemistry Communications</i> , 2004 , 6, 422-426	5.1	87	
19	Electrodeposition of Nanoscale Metals and Semiconductors from Ionic Liquids. <i>ACS Symposium Series</i> , 2003 , 453-466	0.4	2	
18	Nanoscale electrodeposition of metals and semiconductors from ionic liquids. <i>Electrochimica Acta</i> , 2003 , 48, 3053-3061	6.7	115	
17	Electrodeposition of stable and narrowly dispersed germanium nanoclusters from an ionic liquid. <i>Chemical Communications</i> , 2002 , 892-3	5.8	58	
16	Nanoscale electrodeposition of germanium on Au(111) from an ionic liquid: an in situ STM study of phase formation. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1649-1657	3.6	62	
15	Intervalence charge transfer in mixed valence neodymium iodide melts: Electronic conductivity and optical absorption spectra. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 5335-5339	3.6	6	
14	Nanoscale electrodeposition of germanium on Au(111) from an ionic liquid: an in situ STM study of phase formation. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1640-1648	3.6	69	

13	Intervalence charge transfer in neodymium leodymium chloride melts: spectroscopic and electrical conductivity study. <i>Journal of Non-Crystalline Solids</i> , 2002 , 312-314, 459-463	3.9	5
12	Role of chromate, molybdate and tungstate anions on the inhibition of aluminiumin chloride solutions. <i>Journal of Applied Electrochemistry</i> , 2001 , 31, 711-718	2.6	48
11	Effect of gallium ions on the electrochemical behaviour of Al, AlBn, AlBn and AlBnBn alloys in chloride solutions. <i>Corrosion Science</i> , 2001 , 43, 643-654	6.8	51
10	Electrochemical behaviour of Al, AlBn, AlBn and AlBnBn alloys in chloride solutions containing stannous ions. <i>Corrosion Science</i> , 2001 , 43, 655-669	6.8	42
9	Effect of some phenols on corrosion of Al, Cu, and Allu alloys in NaOH solutions. <i>Corrosion Engineering Science and Technology</i> , 1999 , 34, 145-150		3
8	Electrochemical behaviour of Al, AlBn, AlBn and AlBnBn alloys in chloride solutions containing indium ions. <i>Journal of Applied Electrochemistry</i> , 1999 , 29, 473-480	2.6	35
7	Role of indium ions on the activation of aluminium. Journal of Applied Electrochemistry, 1999 , 29, 601-60	9 .6	12
6	Inorganic Synthesis569-617		1
5	Ionic Liquids as Solvents for the Variable Temperature Electrodeposition of Metals and Semiconductors: A Short Introduction85-99		
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