Sherif Zein El Abedin

List of Publications by Year
in descending order

116	7,637	46918	53109
papers	citations	47 h-index	85 g-index

123	123	123	4938
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Air and water stable ionic liquids in physical chemistry. Physical Chemistry Chemical Physics, 2006, 8, 2101.	1.3	1,054
2	AFM and STM Studies on the Surface Interaction of [BMP]TFSA and [EMIm]TFSA Ionic Liquids with Au(111). Journal of Physical Chemistry C, 2009, 113, 13266-13272.	1.5	305
3	Do solvation layers of ionic liquids influence electrochemical reactions?. Physical Chemistry Chemical Physics, 2010, 12, 1724.	1.3	240
4	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. Physical Chemistry Chemical Physics, 2011, 13, 6849.	1.3	224
5	Electrodeposition of Metals and Semiconductors in Air- and Water-Stable Ionic Liquids. ChemPhysChem, 2006, 7, 58-61.	1.0	221
6	Electrodeposition of Nano- and Microcrystalline Aluminium in Three Different Air and Water Stable Ionic Liquids. ChemPhysChem, 2006, 7, 1535-1543.	1.0	202
7	Electrodeposition of nanoscale silicon in a room temperature ionic liquid. Electrochemistry Communications, 2004, 6, 510-514.	2.3	190
8	Electrodeposition of selenium, indium and copper in an air- and water-stable ionic liquid at variable temperatures. Electrochimica Acta, 2007, 52, 2746-2754.	2.6	189
9	The interface ionic liquid(s)/electrode(s): In situSTM and AFM measurements. Faraday Discussions, 2012, 154, 221-233.	1.6	176
10	Pronounced Structure in Confined Aprotic Room-Temperature Ionic Liquids. Journal of Physical Chemistry B, 2009, 113, 7049-7052.	1.2	169
11	Additive free electrodeposition of nanocrystalline aluminium in a water and air stable ionic liquid. Electrochemistry Communications, 2005, 7, 1111-1116.	2.3	161
12	Electroplating of mild steel by aluminium in a first generation ionic liquid: A green alternative to commercial Al-plating in organic solvents. Surface and Coatings Technology, 2006, 201, 1352-1356.	2.2	158
13	Ionic Liquids: The Link to High-Temperature Molten Salts?. Accounts of Chemical Research, 2007, 40, 1106-1113.	7.6	158
14	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, 6250-6256.	1.2	152
15	Ionic liquids as green electrolytes for the electrodeposition of nanomaterials. Green Chemistry, 2007, 9, 549-553.	4.6	143
16	Electrodeposition of zinc films from ionic liquids and ionic liquid/water mixtures. Electrochimica Acta, 2013, 89, 635-643.	2.6	135
17	Nanoscale electrodeposition of metals and semiconductors from ionic liquids. Electrochimica Acta, 2003, 48, 3053-3061.	2.6	128
18	Employing Plasmas as Gaseous Electrodes at the Free Surface of Ionic Liquids: Deposition of Nanocrystalline Silver Particles. ChemPhysChem, 2007, 8, 50-53.	1.0	123

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19	Electroreduction of tantalum fluoride in a room temperature ionic liquid at variable temperatures. Physical Chemistry Chemical Physics, 2005, 7, 2333.	1.3	112
20	Studies on the Electrodeposition of Magnesium in Ionic Liquids. Journal of the Electrochemical Society, 2008, 155, D91.	1.3	112
21	A study on the electrodeposition of tantalum on NiTi alloy in an ionic liquid and corrosion behaviour of the coated alloy. Electrochemistry Communications, 2005, 7, 941-946.	2.3	109
22	Electrodeposition of Ge, Si and SixGe1â^'x from an air- and water-stable ionic liquid. Physical Chemistry Chemical Physics, 2008, 10, 4650.	1.3	106
23	Plasma electrochemistry in ionic liquids: deposition of coppernanoparticles. Physical Chemistry Chemical Physics, 2010, 12, 1750-1755.	1.3	95
24	Electropolymerization of benzene in a room temperature ionic liquid. Electrochemistry Communications, 2004, 6, 422-426.	2.3	94
25	Template assisted electrodeposition of germanium and silicon nanowires in an ionic liquid. Physical Chemistry Chemical Physics, 2008, 10, 6233.	1.3	92
26	Electrodeposition of nanocrystalline aluminium from a chloroaluminate ionic liquid. Electrochemistry Communications, 2010, 12, 1084-1086.	2.3	91
27	Anti-bacterial and anti-corrosion effects of the ionic liquid 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate. Journal of Molecular Liquids, 2015, 211, 363-369.	2.3	86
28	On the electrodeposition of titanium in ionic liquids. Physical Chemistry Chemical Physics, 2008, 10, 2189.	1.3	85
29	Electrodeposition of Al in 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)amide and 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide Ionic Liquids:Â In Situ STM and EQCM Studiesâ€. Journal of Physical Chemistry B, 2007, 111, 4693-4704.	1.2	84
30	Characterization of some aluminium alloys for application as anodes in alkaline batteries. Journal of Applied Electrochemistry, 2004, 34, 331-335.	1.5	82
31	Nanoscale electrodeposition of germanium on Au(111) from an ionic liquid: an in situ STM study of phase formation. Physical Chemistry Chemical Physics, 2002, 4, 1640-1648.	1.3	79
32	Electrodeposition of nanocrystalline silver films and nanowires from the ionic liquid 1-ethyl-3-methylimidazolium trifluoromethylsulfonate. Electrochimica Acta, 2009, 54, 5673-5677.	2.6	71
33	Nanoscale electrodeposition of germanium on Au(111) from an ionic liquid: an in situ STM study of phase formation. Physical Chemistry Chemical Physics, 2002, 4, 1649-1657.	1.3	69
34	An Experimental and Theoretical Study of the Aluminium Species Present in Mixtures of AlCl₃ with the Ionic Liquids [BMP]Tf₂N and [EMIm]Tf₂N. Chemistry - A European Journal, 2009, 15, 3426-3434.	1.7	69
35	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 711-718.	1.5	67
36	Electrodeposition of stable and narrowly dispersed germanium nanoclusters from an ionic liquid. Chemical Communications, 2002, , 892-893.	2.2	67

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37	Probing Lithium and Alumina Impurities in Air- and Water Stable Ionic Liquids by Cyclic Voltammetry and In Situ Scanning Tunneling Microscopy. Zeitschrift Fur Physikalische Chemie, 2006, 220, 1377-1394.	1.4	67
38	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. Electrochimica Acta, 2009, 54, 1519-1528.	2.6	64
39	Effect of gallium ions on the electrochemical behaviour of Al, Alâ€“Sn, Alâ€“Zn and Alâ€“Znâ€“Sn alloys in chloride solutions. Corrosion Science, 2001, 43, 643-654.	3.0	63
40	An EQCM Study of the Electropolymerization of Benzene in an Ionic Liquid and Ion Exchange Characteristics of the Resulting Polymer Film. Journal of Physical Chemistry B, 2005, 109, 7159-7168.	1.2	57
41	Electrochemical behaviour of Al, Alâ€“Sn, Alâ€“Zn and Alâ€“Znâ€“Sn alloys in chloride solutions containing stannous ions. Corrosion Science, 2001, 43, 655-669.	3.0	56
42	Raman and FTIR Spectroscopic Studies of 1â€Ethylâ€3â€methylimidazolium Trifluoromethylsulfonate, its Mixtures with Water and the Solvation of Zinc Ions. ChemPhysChem, 2015, 16, 970-977.	1.0	55
43	In situ STM, AFM and DTS study of the interface 1-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate/Au(111). Electrochimica Acta, 2012, 82, 48-59.	2.6	53
44	Electrochemical Behaviour of Al, Alâ€“In and Alâ€“Gaâ€“In Alloys in Chloride Solutions Containing Zinc Ions. Journal of Applied Electrochemistry, 2004, 34, 1071-1080.	1.5	52
45	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. Physical Chemistry Chemical Physics, 2009, 11, 11140.	1.3	52
46	Electrochemical synthesis of macroporous aluminium films and their behavior towards lithium deposition/stripping. Journal of Power Sources, 2011, 196, 2879-2883.	4.0	51
47	Electrodeposition of aluminium from 1-butyl-1-methylpyrrolidinium chloride/AlCl3 and mixtures with 1-ethyl-3-methylimidazolium chloride/AlCl3. Electrochimica Acta, 2012, 70, 210-214.	2.6	50
48	Electrodeposition of silicon from three different ionic liquids: possible influence of the anion on the deposition process. Journal of Solid State Electrochemistry, 2013, 17, 2823-2832.	1.2	49
49	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 liquidâ€“water mixtures. Electrochemistry Communications, 2015, 58, 46-50.	2.3	48
50	Title is missing!. Journal of Applied Electrochemistry, 1999, 29, 473-480.	1.5	43
51	In situ STM studies of Ga electrodeposition from GaCl3 in the air- and water-stable ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide. Electrochimica Acta, 2009, 55, 218-226.	2.6	41
52	Freeâ€Standing Aluminium Nanowire Architectures Made in an Ionic Liquid. ChemPhysChem, 2012, 13, 250-255.	1.0	41
53	Electrodeposition of Nanocrystalline Aluminum: Breakdown of Imidazolium Cations Modifies the Crystal Size. Journal of the Electrochemical Society, 2008, 155, D357.	1.3	40
54	Electrodeposition of nanocrystalline aluminium, copper, and copperâ€“aluminium alloys from 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate ionic liquid. Journal of Solid State Electrochemistry, 2012, 16, 3487-3497.	1.2	39

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55	Studies on the Antibacterial Influence of Two Ionic Liquids and their Corrosion Inhibition Performance. Applied Sciences (Switzerland), 2020, 10, 1444.	1.3	39
56	AFM-Assisted Investigation of the Corrosion Behaviour of Magnesium and AZ91 Alloys in an Ionic Liquid with Varying Water Content. Australian Journal of Chemistry, 2007, 60, 35.	0.5	38
57	Electrochemical and spectroscopic study of Zn(<scp>ii</scp>) coordination and Zn electrodeposition in three ionic liquids with the trifluoromethylsulfonate anion, different imidazolium ions and their mixtures with water. Physical Chemistry Chemical Physics, 2015, 17, 15945-15952.	1.3	36
58	Plasma Electrochemistry in 1â€Butylâ€3â€methylimidazolium dicyanamide: Copper Nanoparticles from CuCl and CuCl₂. Plasma Processes and Polymers, 2011, 8, 32-37.	1.6	35
59	Electrosynthesis of Poly(para)phenylene in an Ionic Liquid: Cyclic Voltammetry and in Situ STM/Tunnelling Spectroscopy Studies. ChemPhysChem, 2008, 9, 439-444.	1.0	34
60	Electrodeposition and stripping of zinc from an ionic liquid polymer gel electrolyte for rechargeable zinc-based batteries. Journal of Solid State Electrochemistry, 2014, 18, 2683-2691.	1.2	33
61	Corrosion Inhibition of Cast Iron in Arabian Gulf Seawater by Two Different Ionic Liquids. Materials, 2015, 8, 3883-3895.	1.3	33
62	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.	2.6	31
63	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. Zeitschrift Fur Physikalische Chemie, 2021, 235, 377-406.	1.4	31
64	Aluminium Nanowire Electrodes for Lithium-Ion Batteries. Australian Journal of Chemistry, 2012, 65, 1529.	0.5	29
65	Sonochemical Synthesis of Nanostructured ZnO/Ag Composites in an Ionic Liquid. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1733-1744.	1.4	29
66	A simple and fast technique to grow free-standing germanium nanotubes and core-shell structures from room temperature ionic liquids. Electrochimica Acta, 2014, 121, 154-158.	2.6	28
67	Unexpected decomposition of the bis (trifluoromethylsulfonyl) amide anion during electrochemical copper oxidation in an ionic liquid. Electrochemistry Communications, 2010, 12, 909-911.	2.3	27
68	In Situ Spectroelectrochemical Investigation of Ge, Si, and SixGe1â€“xElectrodeposition from an Ionic Liquid. Journal of Physical Chemistry C, 2013, 117, 1722-1727.	1.5	26
69	Electrodeposition of Niobium from 1-Butyl-1-Methylpyrrolidinium bis(trifluoromethylsulfonyl)amide Ionic Liquid. Electrochimica Acta, 2014, 129, 312-317.	2.6	25
70	Electrodeposition of iron and ironâ€“aluminium alloys in an ionic liquid and their magnetic properties. Physical Chemistry Chemical Physics, 2014, 16, 9317.	1.3	25
71	UV-Assisted Electrodeposition of Germanium from an Air- and Water-Stable Ionic Liquid. Journal of Physical Chemistry C, 2012, 116, 17739-17745.	1.5	24
72	An in Situ STM and DTS Study of the Extremely Pure [EMIM]FAP/Au(111) Interface. ChemPhysChem, 2012, 13, 1736-1742.	1.0	24

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73	Fabrication of highly ordered macroporous copper films using template-assisted electrodeposition in an ionic liquid. Electrochemistry Communications, 2012, 18, 70-73.	2.3	23
74	Templateâ€Free Electrodeposition of SnSi Nanowires from an Ionic Liquid. ChemElectroChem, 2015, 2, 1361-1365.	1.7	22
75	Role of indium ions on the activation of aluminium. Journal of Applied Electrochemistry, 1999, 29, 601-609.	1.5	20
76	Surface Analysis of Nanoscale Aluminium and Silicon Films Made by Electrodeposition in Ionic Liquids. Zeitschrift Fur Physikalische Chemie, 2008, 222, 671-686.	1.4	20
77	Effect of Nickel Content on the Corrosion Resistance of Iron-Nickel Alloys in Concentrated Hydrochloric Acid Pickling Solutions. Advances in Materials Science and Engineering, 2017, 2017, 1-8.	1.0	19
78	Fabrication of Tiâ€“Alâ€“Cu new alloys by inductive sintering, characterization, and corrosion evaluation. Journal of Materials Research and Technology, 2019, 8, 4302-4311.	2.6	19
79	Preparation and characterization of zirconia and mixed zirconia/titania in ionic liquids. Journal of Materials Science, 2011, 46, 3330-3336.	1.7	16
80	Electrochemical behavior of aluminum and some of its alloys in chloroaluminate ionic liquids: electrolytic extraction and electrorefining. Journal of Solid State Electrochemistry, 2012, 16, 775-783.	1.2	16
81	Electrochemical synthesis of vertically aligned zinc nanowires using track-etched polycarbonate membranes as templates. Physical Chemistry Chemical Physics, 2013, 15, 11362.	1.3	16
82	Effect of dissolved LiCl on the ionic liquidâ€“Au(111) interface: an in situ STM study. Journal of Physics Condensed Matter, 2014, 26, 284111.	0.7	16
83	Electrodeposition of Ge, Sn and GexSn1-x from two different room temperature ionic liquids. Journal of Solid State Electrochemistry, 2015, 19, 785-793.	1.2	16
84	Insight into the Electrodeposition of SixGe1â€“xThin Films with Variable Compositions from a Room Temperature Ionic Liquid. Journal of Physical Chemistry C, 2013, 117, 26070-26076.	1.5	15
85	Electrochemical Deposition of Nanostructured Metals and Alloys from Ionic Liquids. Zeitschrift Fur Physikalische Chemie, 2006, 220, 1275-1291.	1.4	14
86	Electrochemical synthesis of freestanding tin nanowires from ionic liquids. Journal of Solid State Electrochemistry, 2014, 18, 951-957.	1.2	14
87	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. Journal of Solid State Electrochemistry, 2013, 17, 1127-1132.	1.2	13
88	Templateâ€Free Electrodeposition of Zinc Nanowires from an Ionic Liquid. ChemElectroChem, 2015, 2, 1366-1371.	1.7	13
89	Electrochemical synthesis of PEDOT and PPP macroporous films and nanowire architectures from ionic liquids. Journal of Solid State Electrochemistry, 2012, 16, 3479-3485.	1.2	12
90	Template-assisted electrodeposition of highly ordered macroporous zinc structures from an ionic liquid. Journal of Solid State Electrochemistry, 2013, 17, 1185-1188.	1.2	11

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91	Coating of Mild Steel by Aluminium in the Ionic Liquid [EMIm]Tf2N and its Corrosion Performance. Zeitschrift Fur Physikalische Chemie, 2006, 220, 1293-1308.	1.4	10
92	In Situ Scanning Tunnelling Microscopy in Ionic Liquids: Prospects and Challenges. Zeitschrift Fur Physikalische Chemie, 2007, 221, 1407-1427.	1.4	10
93	Electrodeposition and stripping behavior of a zinc/polystyrene composite electrode in an ionic liquid. Journal of Solid State Electrochemistry, 2015, 19, 1453-1461.	1.2	10
94	Electrodeposition of Zincâ€“Copper and Zincâ€“Tin Films and Freeâ€Standing Nanowire Arrays from Ionic Liquids. ChemElectroChem, 2015, 2, 389-395.	1.7	10
95	Electrodeposition of tantalum and aluminium in ionic liquid [Py1,4] TFSA. Transactions of the Institute of Metal Finishing, 2008, 86, 220-226.	0.6	8
96	Electrochemical Synthesis of Gallium Nanowires and Macroporous Structures in an Ionic Liquid. ChemPhysChem, 2011, 12, 2751-2754.	1.0	8
97	Electrodeposition of Lithium in Polystyrene Sphere Opal Structures on Copper from an Ionic Liquid. Australian Journal of Chemistry, 2012, 65, 1507.	0.5	8
98	Electrodeposition of Lithium/Polystyrene Composite Electrodes from an Ionic Liquid: First Attempts. Zeitschrift Fur Physikalische Chemie, 2012, 226, 121-128.	1.4	8
99	Synthesis of Silicon and Germanium Nanowire Assemblies by Template-Assisted Electrodeposition from an Ionic Liquid. Australian Journal of Chemistry, 2014, 67, 875.	0.5	8
100	In situ STM study of zinc electrodeposition on Au(111) from the ionic liquid 1-ethyl-3-methylimidazolium trifluoromethylsulfonate. Journal of Solid State Electrochemistry, 2014, 18, 2581-2587.	1.2	8
101	Electrodeposition and Magnetic Characterization of Iron and Ironâ€“Silicon Alloys from the Ionic Liquid 1â€Butylâ€1â€methylpyrrolidinium Trifluoromethylsulfonate. ChemPhysChem, 2014, 15, 3515-3522.	1.0	8
102	Intervalence charge transfer in mixed valence neodymium iodide melts: Electronic conductivity and optical absorption spectra. Physical Chemistry Chemical Physics, 2002, 4, 5335-5339.	1.3	7
103	Electrochemical synthesis of lithium nanotubes from an ionic liquid. Electrochemistry Communications, 2014, 48, 91-94.	2.3	7
104	Effect of Annealing Temperature on the Corrosion Protection of Hot Swaged Ti-54M Alloy in 2 M HCl Pickling Solutions. Metals, 2017, 7, 29.	1.0	7
105	Effect of some phenols on corrosion of Al, Cu, and Alâ€“Cu alloys in NaOH solutions. Corrosion Engineering Science and Technology, 1999, 34, 145-150.	0.3	6
106	Intervalence charge transfer in neodymiumâ€“neodymium chloride melts: spectroscopic and electrical conductivity study. Journal of Non-Crystalline Solids, 2002, 312-314, 459-463.	1.5	6
107	Electrodeposition of Crystalline Galliumâ€Doped Germanium and Si_xGe_{1â^'x} from an Ionic Liquid at Room Temperature. ChemElectroChem, 2015, 2, 571-577.	1.7	6
108	Electrodeposition of Semiconductors in Ionic Liquids. , 0, , 147-165.		6

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109	Influence of atmospheric water uptake on the hydrolysis of stannous chloride in the ionic liquid 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate. Journal of Molecular Liquids, 2017, 230, 209-213.	2.3	3
110	Electrochemical synthesis of nanowires and macroporous CuSn alloy from ionic liquids. Journal of Solid State Electrochemistry, 2022, 26, 783-789.	1.2	3
111	Electrodeposition of Nanoscale Metals and Semiconductors from Ionic Liquids. ACS Symposium Series, 2003, , 453-466.	0.5	2
112	Electrochemical Studies of Magnesium Deposition in Ionic Liquids. ECS Transactions, 2007, 3, 269-279.	0.3	1
113	Electrochemical behaviour of Al and some of its alloys in chloride solutions. , 2006, , 633-638.		1
114	Plating Protocols. , 0, , 353-367.		1
115	Electrodeposition on the Nanometer Scale:In Situ Scanning Tunneling Microscopy. , 0, , 239-257.		1
116	Electropolymerization of Benzene in an Ionic Liquid. ACS Symposium Series, 2007, , 28-35.	0.5	0