

# Sherif Zein El Abedin

## List of Publications by Year in descending order

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116  
papers

7,637  
citations

46918

47  
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53109

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123  
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123  
docs citations

123  
times ranked

4938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical synthesis of nanowires and macroporous CuSn alloy from ionic liquids. Journal of Solid State Electrochemistry, 2022, 26, 783-789.	1.2	3
2	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
3	Studies on the Antibacterial Influence of Two Ionic Liquids and their Corrosion Inhibition Performance. Applied Sciences (Switzerland), 2020, 10, 1444.	1.3	39
4	Fabrication of Ti-Al-Cu new alloys by inductive sintering, characterization, and corrosion evaluation. Journal of Materials Research and Technology, 2019, 8, 4302-4311.	2.6	19
5	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
6	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
7	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
8	Sonochemical Synthesis of Nanostructured ZnO/Ag Composites in an Ionic Liquid. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1733-1744.	1.4	29
9	Template-Free Electrodeposition of SnSi Nanowires from an Ionic Liquid. ChemElectroChem, 2015, 2, 1361-1365.	1.7	22
10	Template-Free Electrodeposition of Zinc Nanowires from an Ionic Liquid. ChemElectroChem, 2015, 2, 1366-1371.	1.7	13
11	Corrosion Inhibition of Cast Iron in Arabian Gulf Seawater by Two Different Ionic Liquids. Materials, 2015, 8, 3883-3895.	1.3	33
12	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. Physical Chemistry Chemical Physics, 2015, 17, 15945-15952.	1.3	36
13	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
14	Raman and FTIR Spectroscopic Studies of 1-Ethyl-3-methylimidazolium Trifluoromethylsulfonate, its Mixtures with Water and the Solvation of Zinc Ions. ChemPhysChem, 2015, 16, 970-977.	1.0	55
15	Electrodeposition of Crystalline Gallium-Doped Germanium and Si <sub>x</sub> Ge <sub>1-x</sub> from an Ionic Liquid at Room Temperature. ChemElectroChem, 2015, 2, 571-577.	1.7	6
16	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
17	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-water mixtures. Electrochemistry Communications, 2015, 58, 46-50.	2.3	48
18	Electrodeposition of Zinc-Copper and Zinc-Tin Films and Free-Standing Nanowire Arrays from Ionic Liquids. ChemElectroChem, 2015, 2, 389-395.	1.7	10

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19	Electrodeposition of Ge, Sn and $\text{Ge}_x\text{Sn}_{1-x}$ from two different room temperature ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 785-793.	1.2	16
20	Electrochemical synthesis of freestanding tin nanowires from ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 951-957.	1.2	14
21	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.	2.6	28
22	Electrodeposition of Niobium from 1-Butyl-1-Methylpyrrolidinium bis(trifluoromethylsulfonyl)amide ionic liquid. <i>Electrochimica Acta</i> , 2014, 129, 312-317.	2.6	25
23	Synthesis of Silicon and Germanium Nanowire Assemblies by Template-Assisted Electrodeposition from an Ionic Liquid. <i>Australian Journal of Chemistry</i> , 2014, 67, 875.	0.5	8
24	Electrodeposition of iron and iron-aluminum alloys in an ionic liquid and their magnetic properties. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9317.	1.3	25
25	Electrochemical synthesis of lithium nanotubes from an ionic liquid. <i>Electrochemistry Communications</i> , 2014, 48, 91-94.	2.3	7
26	Effect of dissolved LiCl on the ionic liquid-Au(111) interface: an <i>in situ</i> STM study. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 284111.	0.7	16
27	<i>In situ</i> 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.	1.2	8
28	Electrodeposition and Magnetic Characterization of Iron and Iron-Silicon Alloys from the Ionic Liquid 1-Butyl-1-methylpyrrolidinium Trifluoromethylsulfonate. <i>ChemPhysChem</i> , 2014, 15, 3515-3522.	1.0	8
29	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.	1.2	33
30	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 $\text{AlCl}_3$ . <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1127-1132.	1.2	13
31	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.	1.2	49
32	<i>In Situ</i> Spectroelectrochemical Investigation of Ge, Si, and $\text{Si}_x\text{Ge}_{1-x}$ Electrodeposition from an Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1722-1727.	1.5	26
33	Electrodeposition of zinc films from ionic liquids and ionic liquid/water mixtures. <i>Electrochimica Acta</i> , 2013, 89, 635-643.	2.6	135
34	Template-assisted electrodeposition of highly ordered macroporous zinc structures from an ionic liquid. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1185-1188.	1.2	11
35	Electrochemical synthesis of vertically aligned zinc nanowires using track-etched polycarbonate membranes as templates. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11362.	1.3	16
36	Insight into the Electrodeposition of $\text{Si}_x\text{Ge}_{1-x}$ Thin Films with Variable Compositions from a Room Temperature Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26070-26076.	1.5	15

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37	UV-Assisted Electrodeposition of Germanium from an Air- and Water-Stable Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17739-17745.	1.5	24
38	Electrodeposition of nanocrystalline aluminium, copper, and copper-aluminium alloys from 1-butyl-1-methylpyrrolidinium trifluoromethylsulfonate ionic liquid. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3487-3497.	1.2	39
39	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.	1.2	12
40	Electrodeposition of Lithium in Polystyrene Sphere Opal Structures on Copper from an Ionic Liquid. <i>Australian Journal of Chemistry</i> , 2012, 65, 1507.	0.5	8
41	Aluminium Nanowire Electrodes for Lithium-Ion Batteries. <i>Australian Journal of Chemistry</i> , 2012, 65, 1529.	0.5	29
42	Electrodeposition of Lithium/Polystyrene Composite Electrodes from an Ionic Liquid: First Attempts. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 121-128.	1.4	8
43	In situ STM, AFM and DTS study of the interface 1-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate/Au(111). <i>Electrochimica Acta</i> , 2012, 82, 48-59.	2.6	53
44	The interface ionic liquid(s)/electrode(s): In situ STM and AFM measurements. <i>Faraday Discussions</i> , 2012, 154, 221-233.	1.6	176
45	An in Situ STM and DTS Study of the Extremely Pure [EMIM]FAP/Au(111) Interface. <i>ChemPhysChem</i> , 2012, 13, 1736-1742.	1.0	24
46	Fabrication of highly ordered macroporous copper films using template-assisted electrodeposition in an ionic liquid. <i>Electrochemistry Communications</i> , 2012, 18, 70-73.	2.3	23
47	Electrodeposition of aluminium from 1-butyl-1-methylpyrrolidinium chloride/AlCl <sub>3</sub> and mixtures with 1-ethyl-3-methylimidazolium chloride/AlCl <sub>3</sub> . <i>Electrochimica Acta</i> , 2012, 70, 210-214.	2.6	50
48	Free-Standing Aluminium Nanowire Architectures Made in an Ionic Liquid. <i>ChemPhysChem</i> , 2012, 13, 250-255.	1.0	41
49	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.	1.2	16
50	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 Chemical Physics</i> , 2011, 13, 6849.	1.3	224
51	Interfacial electrochemistry and electrodeposition from some ionic liquids: In situ scanning tunneling microscopy, plasma electrochemistry, selenium and macroporous materials. <i>Electrochimica Acta</i> , 2011, 56, 10295-10305.	2.6	31
52	Preparation and characterization of zirconia and mixed zirconia/titania in ionic liquids. <i>Journal of Materials Science</i> , 2011, 46, 3330-3336.	1.7	16
53	Plasma Electrochemistry in 1-butyl-3-methylimidazolium dicyanamide: Copper Nanoparticles from CuCl <sub>2</sub> and CuCl <sub>2</sub> . <i>Plasma Processes and Polymers</i> , 2011, 8, 32-37.	1.6	35
54	Electrochemical Synthesis of Gallium Nanowires and Macroporous Structures in an Ionic Liquid. <i>ChemPhysChem</i> , 2011, 12, 2751-2754.	1.0	8

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55	Electrochemical synthesis of macroporous aluminium films and their behavior towards lithium deposition/stripping. <i>Journal of Power Sources</i> , 2011, 196, 2879-2883.	4.0	51
56	Unexpected decomposition of the bis (trifluoromethylsulfonyl) amide anion during electrochemical copper oxidation in an ionic liquid. <i>Electrochemistry Communications</i> , 2010, 12, 909-911.	2.3	27
57	Electrodeposition of nanocrystalline aluminium from a chloroaluminate ionic liquid. <i>Electrochemistry Communications</i> , 2010, 12, 1084-1086.	2.3	91
58	Do solvation layers of ionic liquids influence electrochemical reactions?. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1724.	1.3	240
59	Plasma electrochemistry in ionic liquids: deposition of copper nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1750-1755.	1.3	95
60	An Experimental and Theoretical Study of the Aluminium Species Present in Mixtures of $\text{AlCl}_3$ with the Ionic Liquids $[\text{BMP}]\text{Tf}_2\text{N}$ and $[\text{EMIm}]\text{Tf}_2\text{N}$ . <i>Chemistry - A European Journal</i> , 2009, 15, 3426-3434.	1.7	69
61	In situ STM and EQCM studies of tantalum electrodeposition from TaF <sub>5</sub> in the air- and water-stable ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide. <i>Electrochimica Acta</i> , 2009, 54, 1519-1528.	2.6	64
62	Electrodeposition of nanocrystalline silver films and nanowires from the ionic liquid 1-ethyl-3-methylimidazolium trifluoromethylsulfonate. <i>Electrochimica Acta</i> , 2009, 54, 5673-5677.	2.6	71
63	In situ STM studies of Ga electrodeposition from GaCl <sub>3</sub> in the air- and water-stable ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide. <i>Electrochimica Acta</i> , 2009, 55, 218-226.	2.6	41
64	AFM and STM Studies on the Surface Interaction of $[\text{BMP}]\text{TFSA}$ and $[\text{EMIm}]\text{TFSA}$ Ionic Liquids with Au(111). <i>Journal of Physical Chemistry C</i> , 2009, 113, 13266-13272.	1.5	305
65	Pronounced Structure in Confined Aprotic Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7049-7052.	1.2	169
66	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.	1.3	52
67	Electrosynthesis of Poly(para)phenylene in an Ionic Liquid: Cyclic Voltammetry and in Situ STM/Tunnelling Spectroscopy Studies. <i>ChemPhysChem</i> , 2008, 9, 439-444.	1.0	34
68	Studies on the Electrodeposition of Magnesium in Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2008, 155, D91.	1.3	112
69	Template assisted electrodeposition of germanium and silicon nanowires in an ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6233.	1.3	92
70	On the electrodeposition of titanium in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2189.	1.3	85
71	Electrodeposition of Ge, Si and $\text{Si}_x\text{Ge}_{1-x}$ from an air- and water-stable ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4650.	1.3	106
72	Surface Analysis of Nanoscale Aluminium and Silicon Films Made by Electrodeposition in Ionic Liquids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2008, 222, 671-686.	1.4	20

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73	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
74	Electrodeposition of Nanocrystalline Aluminum: Breakdown of Imidazolium Cations Modifies the Crystal Size. Journal of the Electrochemical Society, 2008, 155, D357.	1.3	40
75	Electrochemical Studies of Magnesium Deposition in Ionic Liquids. ECS Transactions, 2007, 3, 269-279.	0.3	1
76	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
77	In Situ Scanning Tunnelling Microscopy in Ionic Liquids: Prospects and Challenges. Zeitschrift Fur Physikalische Chemie, 2007, 221, 1407-1427.	1.4	10
78	Electropolymerization of Benzene in an Ionic Liquid. ACS Symposium Series, 2007, , 28-35.	0.5	0
79	Ionic Liquids: The Link to High-Temperature Molten Salts?. Accounts of Chemical Research, 2007, 40, 1106-1113.	7.6	158
80	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. Journal of Physical Chemistry B, 2007, 111, 4693-4704.	1.2	84
81	Ionic liquids as green electrolytes for the electrodeposition of nanomaterials. Green Chemistry, 2007, 9, 549-553.	4.6	143
82	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
83	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
84	Air and water stable ionic liquids in physical chemistry. Physical Chemistry Chemical Physics, 2006, 8, 2101.	1.3	1,054
85	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
86	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
87	Electrochemical Deposition of Nanostructured Metals and Alloys from Ionic Liquids. Zeitschrift Fur Physikalische Chemie, 2006, 220, 1275-1291.	1.4	14
88	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
89	Electrodeposition of Metals and Semiconductors in Air- and Water-Stable Ionic Liquids. ChemPhysChem, 2006, 7, 58-61.	1.0	221
90	Electrodeposition of Nano- and Microcrystalline Aluminium in Three Different Air and Water Stable Ionic Liquids. ChemPhysChem, 2006, 7, 1535-1543.	1.0	202

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91	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.	1.4	67
92	Electrochemical behaviour of Al and some of its alloys in chloride solutions. , 2006, , 633-638.		1
93	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.	2.3	109
94	Additive free electrodeposition of nanocrystalline aluminium in a water and air stable ionic liquid. <i>Electrochemistry Communications</i> , 2005, 7, 1111-1116.	2.3	161
95	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, 7159-7168.	1.2	57
96	Electroreduction of tantalum fluoride in a room temperature ionic liquid at variable temperatures. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2333.	1.3	112
97	Characterization of some aluminium alloys for application as anodes in alkaline batteries. <i>Journal of Applied Electrochemistry</i> , 2004, 34, 331-335.	1.5	82
98	Electrochemical Behaviour of Al, Alâ€“In and Alâ€“Gaâ€“In Alloys in Chloride Solutions Containing Zinc Ions. <i>Journal of Applied Electrochemistry</i> , 2004, 34, 1071-1080.	1.5	52
99	Electrodeposition of nanoscale silicon in a room temperature ionic liquid. <i>Electrochemistry Communications</i> , 2004, 6, 510-514.	2.3	190
100	Electropolymerization of benzene in a room temperature ionic liquid. <i>Electrochemistry Communications</i> , 2004, 6, 422-426.	2.3	94
101	Electrodeposition of Nanoscale Metals and Semiconductors from Ionic Liquids. <i>ACS Symposium Series</i> , 2003, , 453-466.	0.5	2
102	Nanoscale electrodeposition of metals and semiconductors from ionic liquids. <i>Electrochimica Acta</i> , 2003, 48, 3053-3061.	2.6	128
103	Electrodeposition of stable and narrowly dispersed germanium nanoclusters from an ionic liquid. <i>Chemical Communications</i> , 2002, , 892-893.	2.2	67
104	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.	1.3	69
105	Intervallence charge transfer in mixed valence neodymium iodide melts: Electronic conductivity and optical absorption spectra. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5335-5339.	1.3	7
106	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.	1.3	79
107	Intervallence charge transfer in neodymiumâ€“neodymium chloride melts: spectroscopic and electrical conductivity study. <i>Journal of Non-Crystalline Solids</i> , 2002, 312-314, 459-463.	1.5	6
108	Effect of gallium ions on the electrochemical behaviour of Al, Alâ€“Sn, Alâ€“Zn and Alâ€“Znâ€“Sn alloys in chloride solutions. <i>Corrosion Science</i> , 2001, 43, 643-654.	3.0	63

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109	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
110	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 711-718.	1.5	67
111	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
112	Title is missing!. Journal of Applied Electrochemistry, 1999, 29, 473-480.	1.5	43
113	Role of indium ions on the activation of aluminium. Journal of Applied Electrochemistry, 1999, 29, 601-609.	1.5	20
114	Plating Protocols. , 0, , 353-367.		1
115	Electrodeposition of Semiconductors in Ionic Liquids. , 0, , 147-165.		6
116	Electrodeposition on the Nanometer Scale:In Situ Scanning Tunneling Microscopy. , 0, , 239-257.		1