## Frank Endres

List of Publications by Year in descending order

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101543 34986 10,533 102 36 98 citations h-index g-index papers 118 118 118 10117 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	lonic Liquid and Polymer Coated Garnet Solid Electrolytes for Highâ€Energy Solidâ€5tate Lithium Metal Batteries. Energy Technology, 2022, 10, .	3.8	5
2	Electrochemical synthesis of nanowires and macroporous CuSn alloy from ionic liquids. Journal of Solid State Electrochemistry, 2022, 26, 783-789.	2.5	3
3	Ionic Liquid and Polymer Coated Garnet Solid Electrolytes for Highâ€Energy Solidâ€State Lithium Metal Batteries. Energy Technology, 2022, 10, .	3.8	1
4	Zinc Storage Mechanism in Polypyrrole Electrodeposited from Aqueous, Organic, and Ionic Liquid Electrolytes: An In Situ Raman Spectroelectrochemical Study. ACS Applied Energy Materials, 2022, 5, 3217-3226.	5.1	8
5	Electrodeposition of Indium from an Ionic Liquid Investigated by In Situ Electrochemical XPS. Metals, 2022, 12, 59.	2.3	11
6	Preparation of Sn-NiO films and all-solid-state devices with enhanced electrochromic properties by magnetron sputtering method. Electrochimica Acta, 2021, 367, 137457.	5.2	36
7	Biodegradable Zn-ion battery with a lignin composite electrode and bio-ionic liquid based electrolyte: possible <i>in situ</i> energy generation by lignin electrocatalysis. Materials Advances, 2021, 2, 2676-2683.	5.4	15
8	Lithiation of Single-Crystalline Ge(111) and Si(111) Investigated by X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 13501-13507.	3.1	5
9	Disproportionation Reaction of Gallium during Electrodeposition from an Ionic Liquid, Monitored by In Situ Electrochemical XPS. Journal of Physical Chemistry C, 2021, 125, 24589-24595.	3.1	13
10	In Situ Electrochemical XPS Monitoring of the Formation of Anionic Gold Species by Cathodic Corrosion of a Gold Electrode in an Ionic Liquid. Journal of Physical Chemistry C, 2021, 125, 26793-26800.	3.1	10
11	In Situ Atomic Force Microscopic Studies of LiFSI-[Py $<$ sub $>$ 1,4 $<$  sub $>$ ]FSI Interfacial Nanostructure on Au $(111)$ : Solid Electrolyte Interphase and Lithium Underpotential Deposition. Journal of Physical Chemistry C, 2021, 125, 27140-27147.	3.1	3
12	X-ray Photoelectron Spectroscopy Probing of the Interphase between Solid-State Sulfide Electrolytes and a Lithium Anode. Journal of Physical Chemistry C, 2020, 124, 300-308.	3.1	30
13	Entropy Changes upon Double Layer Charging at a (111)-Textured Au Film in Pure 1-Butyl-1-Methylpyrrolidinium Bis[(trifluoromethyl)sulfonyl]imide Ionic Liquid. Journal of Physical Chemistry C, 2020, 124, 693-700.	3.1	8
14	Preparation of WO <sub>3</sub> Films with Controllable Crystallinity for Improved Near-Infrared Electrochromic Performances. ACS Sustainable Chemistry and Engineering, 2020, 8, 11658-11666.	6.7	82
15	Multi-color poly(3-methylthiophene) films prepared by a novel pre-nucleation electrodeposition grown method for enhancing electrochromic stability. Electrochimica Acta, 2020, 362, 137103.	<b>5.</b> 2	8
16	Surface-Oxygen Induced Electrochemical Self-Assembly of Mesoporous Conducting Polymers for Electrocatalysis. Journal of the Electrochemical Society, 2020, 167, 112501.	2.9	7
17	Highly efficient electrocatalytic hydrogen evolution reaction on carbonized porous conducting polymers. Journal of Solid State Electrochemistry, 2020, 24, 2763-2771.	2.5	13
18	lonic Liquid Multilayers on Electrode Surfaces: Influence of Electrode Potential and Solutes., 2020,, 159-182.		0

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19	Electrocodeposition of Titanium and Gallium from 1-Butyl-1-Methylpyrrolidinium Trifluoromethanesulfonate. Journal of the Electrochemical Society, 2020, 167, 122512.	2.9	1
20	Mechanism of Zn-Ion Intercalation/Deintercalation in a Zn–Polypyrrole Secondary Battery in Aqueous and Bio-Ionic liquid Electrolytes. ACS Applied Materials & Enterfaces, 2019, 11, 45098-45107.	8.0	38
21	A Review on the Electroless Deposition of Functional Materials in Ionic Liquids for Batteries and Catalysis. Frontiers in Chemistry, 2019, 7, 85.	3.6	57
22	In situ X-ray photoelectron spectroscopy investigation of the solid electrolyte interphase in a Li/Li6.4Ga0.2La3Zr2O12/LiFePO4 all-solid-state battery. Journal of Solid State Electrochemistry, 2019, 23, 2107-2117.	2.5	19
23	Investigation of the Electrode/Ionic Liquid Interphase: Chemical Reactions of an Ionic Liquid and a Lithium Salt with Lithiated Graphite Probed by X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 10325-10332.	3.1	12
24	Modification of the Electrolyte/Electrode Interface for the Template-free Electrochemical Synthesis of Metal Nanowires from Ionic Liquids. Journal of Physical Chemistry Letters, 2018, 9, 1272-1278.	4.6	4
25	Electrochemical Synthesis of Battery Electrode Materials from Ionic Liquids. Topics in Current Chemistry, 2018, 376, 9.	5.8	7
26	On the Electrodeposition of Titanium from TiCl <sub>4</sub> in 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide: In Situ AFM and Spectroscopic Investigations. Journal of the Electrochemical Society, 2018, 165, D223-D230.	2.9	8
27	Influence of a silver salt on the nanostructure of a Au(111)/ionic liquid interface: an atomic force microscopy study and theoretical concepts. Physical Chemistry Chemical Physics, 2018, 20, 4760-4771.	2.8	30
28	The Apparent Band Gap of p-Doped H-Passivated Si (111) with a Thin Film of an Ionic Liquid on Top. Journal of Physical Chemistry C, 2018, 122, 5481-5488.	3.1	2
29	The Au(111)/IL interfacial nanostructure in the presence of precursors and its influence on the electrodeposition process. Faraday Discussions, 2018, 206, 459-473.	3.2	11
30	Anomalous electroless deposition of less noble metals on Cu in ionic liquids and its application towards battery electrodes. Faraday Discussions, 2018, 206, 339-351.	3.2	14
31	A battery-supercapacitor hybrid device composed of metallic zinc, a biodegradable ionic liquid electrolyte and graphite. Journal of Solid State Electrochemistry, 2018, 22, 91-101.	2.5	75
32	Electrodeposition of Lithium-Silicon Alloys from 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide. Journal of the Electrochemical Society, 2018, 165, D790-D795.	2.9	2
33	lonic Liquid–Organic Solvent Mixture-Based Polymer Gel Electrolyte with High Lithium Concentration for Li-lon Batteries. Journal of Physical Chemistry C, 2018, 122, 24788-24800.	3.1	13
34	Electrochemically induced phase separation and in situ formation of mesoporous structures in ionic liquid mixtures. Science Advances, 2018, 4, eaau9663.	10.3	6
35	An Ionic Liquidâ€Surface Functionalized Polystyrene Spheres Hybrid Electrolyte for Rechargeable Zinc/Conductive Polymer Batteries. ChemElectroChem, 2018, 5, 2321-2325.	3.4	11
36	Interactions between Lithium, an Ionic Liquid, and Si(111) Surfaces Studied by X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 4673-4678.	4.6	7

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37	Electrodeposition of Zinc from 1-ethyl-3-methylimidazolium acetate-water Mixtures: Investigations on the Applicability of the Electrolyte for Zn-Air Batteries. Journal of the Electrochemical Society, 2018, 165, D354-D363.	2.9	28
38	In Situ Atomic Force Microscopy and Electrochemical Quartz Crystal Microbalance Studies on the Electrodeposition and Oxidation of Silicon. Journal of Physical Chemistry C, 2018, 122, 14499-14510.	3.1	4
39	Monochromatic X-ray Photoelectron Spectroscopy Study of Three Different Ionic Liquids in Interaction with Lithium-Decorated Copper Surfaces. Journal of Physical Chemistry C, 2017, 121, 2675-2682.	3.1	39
40	Interfacial Nanostructure and Asymmetric Electrowetting of Ionic Liquids. Langmuir, 2017, 33, 9539-9547.	3.5	24
41	Bio-degradable zinc-ion battery based on a prussian blue analogue cathode and a bio-ionic liquid-based electrolyte. Journal of Solid State Electrochemistry, 2017, 21, 2021-2027.	2.5	105
42	Nanostructure of the H-terminated p-Si( $111$ )/ionic liquid interface and the effect of added lithium salt. Physical Chemistry Chemical Physics, 2017, 19, 54-58.	2.8	8
43	Hydrofluoric Acid-Free Electroless Deposition of Metals on Silicon in Ionic Liquids and Its Enhanced Performance in Lithium Storage. ACS Applied Materials & Samp; Interfaces, 2017, 9, 11350-11355.	8.0	13
44	Influence of Chemical Structure and Temperature on Oxygen Reduction Reaction and Transport in Ionic Liquids. Zeitschrift Fur Physikalische Chemie, 2017, 231, 1077-1092.	2.8	5
45	Electrodeposition of zinc nanoplates from an ionic liquid composed of 1-butylpyrrolidine and ZnCl <sub>2</sub> : electrochemical, in situ AFM and spectroscopic studies. Dalton Transactions, 2017, 46, 455-464.	3.3	18
46	Reviewâ€"Electrodeposition of Nanostructured Materials from Aqueous, Organic and Ionic Liquid Electrolytes for Li-lon and Na-Ion Batteries: A Comparative Review. Journal of the Electrochemical Society, 2017, 164, D597-D612.	2.9	41
47	How a Transitionâ€Metal(II) Chloride Interacts with a Eutectic AlCl <sub>3</sub> â€Based Ionic Liquid: Insights into the Speciation of the Electrolyte and Electrodeposition of Magnetic Materials. Chemistry - an Asian Journal, 2017, 12, 2684-2693.	3.3	1
48	UV-assisted, template-free electrodeposition of germanium nanowire cluster arrays from an ionic liquid for anodes in lithium-ion batteries. New Journal of Chemistry, 2017, 41, 15210-15215.	2.8	14
49	Electrochemical and Spectroscopic Studies of Zinc Acetate in 1â€Ethylâ€3â€methylimidazolium Acetate for Zinc Electrodeposition. ChemElectroChem, 2016, 3, 598-604.	3.4	35
50	Dendritenfreie elektrochemische Abscheidung von nanokristallinem Zink aus einer Nickeltriflatâ€haltigen ionischen FlÃ⅓ssigkeit fÃ⅓r wiederaufladbare Znâ€Batterien. Angewandte Chemie, 2016, 128, 2939-2943.	2.0	16
51	Suppressing the dendritic growth of zinc in an ionic liquid containing cationic and anionic zinc complexes for battery applications. Dalton Transactions, 2016, 45, 8089-8098.	3.3	65
52	Influence of Water on the Electrified Ionic Liquid/Solid Interface: A Direct Observation of the Transition from a Multilayered Structure to a Double-Layer Structure. Journal of Physical Chemistry C, 2016, 120, 9341-9349.	3.1	89
53	A Prussian Blue/Zinc Secondary Battery with a Bio-Ionic Liquid–Water Mixture as Electrolyte. ACS Applied Materials & Samp; Interfaces, 2016, 8, 12158-12164.	8.0	367
54	Anion Effects on the Solid/Ionic Liquid Interface and the Electrodeposition of Zinc. Journal of Physical Chemistry C, 2016, 120, 20224-20231.	3.1	62

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55	Influence of Polar Organic Solvents in an Ionic Liquid Containing Lithium Bis(fluorosulfonyl)amide: Effect on the Cation–Anion Interaction, Lithium Ion Battery Performance, and Solid Electrolyte Interphase. ACS Applied Materials & Interfaces, 2016, 8, 34143-34150.	8.0	38
56	Dendriteâ€Free Nanocrystalline Zinc Electrodeposition from an Ionic Liquid Containing Nickel Triflate for Rechargeable Znâ€Based Batteries. Angewandte Chemie - International Edition, 2016, 55, 2889-2893.	13.8	210
57	[Py <sub>1,4</sub> ]FSI-NaFSI-Based Ionic Liquid Electrolyte for Sodium Batteries: Na <sup>+</sup> Solvation and Interfacial Nanostructure on Au(111). Journal of Physical Chemistry C, 2016, 120, 14736-14741.	3.1	45
58	Surface modification of battery electrodes via electroless deposition with improved performance for Na-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 14782-14786.	2.8	25
59	Characterisation of the solid electrolyte interface during lithiation/delithiation of germanium in an ionic liquid. Physical Chemistry Chemical Physics, 2016, 18, 5630-5637.	2.8	36
60	In situ scanning tunneling microscopy (STM), atomic force microscopy (AFM) and quartz crystal microbalance (EQCM) studies of the electrochemical deposition of tantalum in two different ionic liquids with the 1-butyl-1-methylpyrrolidinium cation. Electrochimica Acta, 2016, 197, 374-387.	5.2	31
61	Templateâ€Free Electrodeposition of SnSi Nanowires from an Ionic Liquid. ChemElectroChem, 2015, 2, 1361-1365.	3.4	22
62	Electroless Deposition of III–V Semiconductor Nanostructures from Ionic Liquids at Room Temperature. Angewandte Chemie - International Edition, 2015, 54, 11870-11874.	13.8	21
63	Influence of an Additive on Zinc Electrodeposition in the Ionic Liquid 1â€Ethylâ€3â€methylimidazolium Trifluoromethylsulfonate. ChemElectroChem, 2015, 2, 1159-1163.	3.4	14
64	LiTFSI in 1-butyl-1-methylpyrrolidinium bis(fluorosulfonyl)amide: a possible electrolyte for ionic liquid based lithium ion batteries. Physical Chemistry Chemical Physics, 2015, 17, 11161-11164.	2.8	49
65	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.	2.8	36
66	Nanostructure of the Ionic Liquid–Graphite Stern Layer. ACS Nano, 2015, 9, 7608-7620.	14.6	156
67	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.	2.1	55
68	In Situ Atomic Force Microscopic Studies of the Interfacial Multilayer Nanostructure of LiTFSl–[Py <sub>1,Â4</sub> ]TFSI on Au(111): Influence of Li <sup>+</sup> Ion Concentration on the Au(111)/IL Interface. Journal of Physical Chemistry C, 2015, 119, 16734-16742.	3.1	48
69	Electrodeposition of Ge, Sn and GexSn1-x from two different room temperature ionic liquids. Journal of Solid State Electrochemistry, 2015, 19, 785-793.	2.5	16
70	A Comparative Study on the Electrodeposition of Tin from Two Different Ionic Liquids: Influence of the Anion on the Morphology of the Tin Deposits. ChemElectroChem, 2014, 1, 1549-1556.	3.4	21
71	Structure and dynamics of the interfacial layer between ionic liquids and electrode materials. Journal of Molecular Liquids, 2014, 192, 44-54.	4.9	133
72	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.	5.2	28

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73	Spectroscopic characterization of the interaction of lithium with thin films of the ionic liquid 1-octyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide. Physical Chemistry Chemical Physics, 2014, 16, 25969-25977.	2.8	48
74	Effect of dissolved LiCl on the ionic liquid–Au(111) interface: an <i>in situ</i> STM study. Journal of Physics Condensed Matter, 2014, 26, 284111.	1.8	16
75	Electrodeposition of gallium in the presence of NH <sub>4</sub> Cl in an ionic liquid: hints for GaN formation. Chemical Communications, 2014, 50, 10438.	4.1	12
76	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.	2.5	8
77	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.	2.5	33
78	Combined STM, AFM, and DFT Study of the Highly Ordered Pyrolytic Graphite/1-Octyl-3-methyl-imidazolium Bis(trifluoromethylsulfonyl)imide Interface. Journal of Physical Chemistry C, 2014, 118, 10833-10843.	3.1	65
79	Effect of alkyl chain length and anion species on the interfacial nanostructure of ionic liquids at the Au(111)–ionic liquid interface as a function of potential. Physical Chemistry Chemical Physics, 2013, 15, 14624.	2.8	163
80	3D Ordered Macroporous Ge/Al and Ge/Si Bilayer Films Made by Electrodeposition from Ionic Liquids. Zeitschrift Fur Physikalische Chemie, 2013, 227, 1731-1740.	2.8	1
81	Electrodeposition of Lithium in Polystyrene Sphere Opal Structures on Copper from an Ionic Liquid. Australian Journal of Chemistry, 2012, 65, 1507.	0.9	8
82	New insights into the interface between a single-crystalline metal electrode and an extremely pure ionic liquid: slow interfacial processes and the influence of temperature on interfacial dynamics. Physical Chemistry Chemical Physics, 2012, 14, 5090.	2.8	147
83	Effect of dissolved LiCl on the ionic liquid–Au(111) electrical double layer structure. Chemical Communications, 2012, 48, 10246.	4.1	70
84	Electrodeposition of Lithium/Polystyrene Composite Electrodes from an Ionic Liquid: First Attempts. Zeitschrift Fur Physikalische Chemie, 2012, 226, 121-128.	2.8	8
85	The interface ionic liquid(s)/electrode(s): In situSTM and AFM measurements. Faraday Discussions, 2012, 154, 221-233.	3.2	176
86	Changes of the near-surface chemical composition of the 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide room temperature ionic liquid under the influence of irradiation. Physical Chemistry Chemical Physics, 2011, 13, 1174-1181.	2.8	33
87	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.	2.8	224
88	Double Layer Structure of Ionic Liquids at the Au(111) Electrode Interface: An Atomic Force Microscopy Investigation. Journal of Physical Chemistry C, 2011, 115, 6855-6863.	3.1	336
89	Electrochemical Synthesis of Gallium Nanowires and Macroporous Structures in an Ionic Liquid. ChemPhysChem, 2011, 12, 2751-2754.	2.1	8
90	Do solvation layers of ionic liquids influence electrochemical reactions?. Physical Chemistry Chemical Physics, 2010, 12, 1724.	2.8	240

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91	On the electrodeposition of tantalum from three different ionic liquids with the bis(trifluoromethyl) Tj ETQq $1\ 1\ 0$	.784314 r	gBT /Overloc
92	Ionic-liquid materials for the electrochemical challenges of the future. Nature Materials, 2009, 8, 621-629.	27.5	4,067
93	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.	3.1	305
94	Surface Analysis of Nanoscale Aluminium and Silicon Films Made by Electrodeposition in Ionic Liquids. Zeitschrift Fur Physikalische Chemie, 2008, 222, 671-686.	2.8	20
95	Air and water stable ionic liquids in physical chemistry. Physical Chemistry Chemical Physics, 2006, 8, 2101.	2.8	1,054
96	High temperature electrochemical scanning tunneling microscope instrument. Review of Scientific Instruments, 2002, 73, 102-107.	1.3	20
97	Electrodeposition of stable and narrowly dispersed germanium nanoclusters from an ionic liquid. Chemical Communications, 2002, , 892-893.	4.1	67
98	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.	2.8	69
99	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.	2.8	79
100	lonic Liquids: Solvents for the Electrodeposition of Metals and Semiconductors. ChemPhysChem, 2002, 3, 144-154.	2.1	642
101	Electrochemical scanning tunnelling microscopy (EC-STM) study of silver electrodeposition from a room temperature molten salt. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 1075-1077.	0.9	18
102	Investigation of Non-Saccharomyces Yeast Strains for Their Suitability for the Production of Non-Alcoholic Beers with Novel Flavor Profiles. Journal of the American Society of Brewing Chemists, $0$ , $1$ -15.	1.1	9