

Carsten Schwandt

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

934
citations

471509

17
h-index

477307

29
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44
all docs

44
docs citations

44
times ranked

685
citing authors

#	ARTICLE	IF	CITATIONS
1	The production of oxygen and metal from lunar regolith. <i>Planetary and Space Science</i> , 2012, 74, 49-56.	1.7	103
2	The FFC-Cambridge Process for Titanium Metal Winning. <i>Key Engineering Materials</i> , 0, 436, 13-25.	0.4	64
3	Thermokinetic characteristics of lithium chloride. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 619-626.	3.6	53
4	Electrochemical investigation of lithium intercalation into graphite from molten lithium chloride. <i>Journal of Electroanalytical Chemistry</i> , 2002, 530, 16-22.	3.8	51
5	Effect of the graphite electrode material on the characteristics of molten salt electrolytically produced carbon nanomaterials. <i>Materials Characterization</i> , 2011, 62, 987-994.	4.4	49
6	Direct electrochemical synthesis of high-entropy alloys from metal oxides. <i>Applied Materials Today</i> , 2017, 9, 111-121.	4.3	47
7	The Electrochemical Reduction of Chromium Sesquioxide in Molten Calcium Chloride under Cathodic Potential Control. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2007, 62, 655-670.	1.5	46
8	Facile Electrochemical Synthesis of Nanoscale (TiNbTaZrHf)C High-Entropy Carbide Powder. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11830-11835.	13.8	46
9	High-yield synthesis of multi-walled carbon nanotubes from graphite by molten salt electrolysis. <i>Carbon</i> , 2012, 50, 1311-1315.	10.3	43
10	Aspects of the Application of Electrochemistry to the Extraction of Titanium and Its Applications. <i>Materials Transactions</i> , 2017, 58, 306-312.	1.2	43
11	Electrochemical synthesis of porous Ti-Nb alloys for biomedical applications. <i>Materials Science and Engineering C</i> , 2019, 96, 466-478.	7.3	42
12	Correlation between microstructure and thermokinetic characteristics of electrolytic carbon nanomaterials. <i>Corrosion Science</i> , 2012, 64, 90-97.	6.6	39
13	On the oxidation of electrolytic carbon nanomaterials. <i>Corrosion Science</i> , 2012, 54, 307-313.	6.6	34
14	Solid state electrochemically synthesised β -SiC nanowires as the anode material in lithium ion batteries. <i>Energy Storage Materials</i> , 2020, 26, 234-241.	18.0	32
15	Electrochemical investigation of lithium and tin reduction at a graphite cathode in molten chlorides. <i>Journal of Electroanalytical Chemistry</i> , 2004, 562, 15-21.	3.8	31
16	Electrochemical conversion of oxide spinels into high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019, 776, 133-141.	5.5	29
17	Iminodiacetic acid functionalized polypyrrole modified electrode as Pb(II) sensor: Synthesis and DPASV studies. <i>Electrochimica Acta</i> , 2014, 137, 557-563.	5.2	20
18	Preparation of tin-filled carbon nanotubes and nanoparticles by molten salt electrolysis. <i>Carbon</i> , 2014, 70, 142-148.	10.3	19

#	ARTICLE	IF	CITATIONS
19	Understanding the electro-deoxidation of titanium dioxide to titanium metal via the FFC-Cambridge process. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2013, 122, 213-218.	0.6	17
20	Facile Electrochemical Synthesis of Nanoscale (TiNbTaZrHf) ₂ C High-Entropy Carbide Powder. <i>Angewandte Chemie</i> , 2020, 132, 11928-11933.	2.0	15
21	Use of Molten Salt Fluxes and Cathodic Protection for Preventing the Oxidation of Titanium at Elevated Temperatures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 2145-2152.	2.1	13
22	Solid state electrochemical hydrogen sensor for aluminium and aluminium alloy melts. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 227-233.	7.8	12
23	On the nature of the current and the absence of an IR-drop in an FFC-Cambridge-type electro-deoxidation cell. <i>Electrochimica Acta</i> , 2018, 280, 114-120.	5.2	12
24	Preparation of Refractory High-Entropy Alloys by Electro-Deoxidation and the Effect of Heat Treatment on Microstructure and Hardness. <i>Jom</i> , 2020, 72, 3895-3905.	1.9	11
25	Molten Salt Electrochemical Synthesis, Heat Treatment and Microhardness of Ti ₅ Ta ₂ Nb Alloy. <i>Materials Transactions</i> , 2019, 60, 391-399.	1.2	9
26	Direct Electrochemical Preparation of Nanostructured Silicon Carbide and Its Nitridation Behavior. <i>Journal of the Electrochemical Society</i> , 2018, 165, D731-D742.	2.9	8
27	Phase Composition, Microstructure, Corrosion Resistance and Mechanical Properties of Molten Salt Electrochemically Synthesised Ti ₅ Nb ₂ Sn Biomedical Alloys. <i>Materials Transactions</i> , 2019, 60, 422-428.	1.2	8
28	Preparation of Ta ₂ O ₅ /Nb ₂ O ₅ Mixture in a CaCl ₂ -NaCl Eutectic Melt. <i>Advanced Materials Research</i> , 0, 160-162, 1131-1135.	0.3	6
29	Amine Functionalized polyaniline grafted to exfoliated graphite oxide: Synthesis, characterization and multi-element sensor studies. <i>Journal of Electroanalytical Chemistry</i> , 2015, 757, 137-143.	3.8	6
30	Comment on the article "Effect of CaO addition on preparation of ferrotitanium from ilmenite by electrochemical reduction in CaCl ₂ -NaCl molten salt" by L. Xiong, Y.X. Hua, C.Y. Xu, J. Li, Y. Li, Q.B. Zhang, Z.R. Zhou, Y.D. Zhang, J.J. Ru. <i>Journal of Alloys and Compounds</i> , 2017, 710, 692-694.	5.5	4
31	Facile and Scalable Electrochemical Synthesis of Ta-Nb Alloy Powders for Capacitors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 022504.	2.9	4
32	Oxygen from Lunar Regolith. , 2012, , 165-187.		4
33	Facile Electrochemical Preparation of Nano-sized Ultra-high-temperature Ta _x Hf _x C Ceramic Powders. <i>Journal of the Electrochemical Society</i> , 2022, 169, 062506.	2.9	4
34	Laser welding studies on Ti-6Al-4V in air in conjunction with cathodic protection. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 689-696.	2.5	3
35	An Investigation of Current Reversal Mode for Gas Sensing With a Solid Electrolyte. <i>International Journal of Applied Ceramic Technology</i> , 2006, 3, 200-209.	2.1	2
36	Molten Salt Electrolytically Produced Carbon/Tin Nanomaterial as the Anode in a Lithium Ion Battery. <i>Metallurgical and Materials Transactions E</i> , 2017, 4, 22-28.	0.5	0

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37	Comment on the article "New solid-state electrochemical method of measuring dissolved hydrogen in Al melt" by S.G. Kim, B.H. Jung, C.O. Park, R.A. Rapp. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2066-2068.	7.8	0
38	Comment on the Article "Initial Reactions at the Electrodes of the FFC-Cambridge Process in Molten CaCl ₂ to Produce Ti" by P.S. Lai, M.L. Hu, Z.F. Qu, L.Z. Gao, C.G. Bai, T.X. Wang, S.F. Zhang, and G.B. Qiu. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 407-411.	2.1	0
39	Comment on the Article "Reduction of Carbon Dioxide to Carbon Nanostructures in Molten Salt: The Effect of Electrolyte Composition" by S. Abbasloo, M. Ojaghi-Ikhchi, and M. Mozammel. <i>Jom</i> , 2020, 72, 4718-4720.	1.9	0
40	Factors Controlling the Synthesis of Porous Ti-Based Biomedical Alloys by Electrochemical Deoxidation in Molten Salts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1590-1602.	2.1	0
41	Polyanthranilic acid microspheres as an active material for electrochemical detection of sub-picomolar lead ion concentrations in aqueous media. <i>Ionics</i> , 0, , .	2.4	0