

Alexander Michaelis

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding Component-Specific Contributions and Internal Dynamics in Silicon/Graphite Blended Electrodes for High-Energy Lithium-Ion Batteries. Batteries and Supercaps, 2022, 5, .	2.4	23
2	Non-Oxide CMC fabricated by Fused Filament Fabrication (FFF). International Journal of Applied Ceramic Technology, 2022, 19, 1148-1155.	1.1	5
3	Synergy Effects in Blended Electrodes for Li-Ion Batteries: A Conceptual Clarification. Batteries and Supercaps, 2022, 5, e202100171.	2.4	3
4	Intercalation electrochemistry for thermoelectric energy harvesting from temperature fluctuations. Chemical Communications, 2022, 58, 1203-1206.	2.2	1
5	Tailoring of Hierarchical Porous Freeze Foam Structures. Materials, 2022, 15, 836.	1.3	3
6	Understanding Li Plating and Stripping Behavior in Zero-Excess Li Metal Batteries Using Operando Dilatometry. Journal of the Electrochemical Society, 2022, 169, 030543.	1.3	14
7	Preparation and Characterization of B4C-HfB2 Composites as Material for High-Temperature Thermocouples. Crystals, 2022, 12, 621.	1.0	2
8	Study on CerAMufacturing of Novel Alumina Aerospike Nozzles by Lithography-Based Ceramic Vat Photopolymerization (CerAM VPP). Materials, 2022, 15, 3279.	1.3	4
9	Influence of different binder metals in high entropy carbide based hardmetals. Powder Metallurgy, 2022, 65, 373-381.	0.9	12
10	Investigation of Targeted Process Control for Adjusting the Macrostructure of Freeze Foams Using In Situ Computed Tomography. Ceramics, 2022, 5, 269-280.	1.0	2
11	Recent Insights into Rate Performance Limitations of Li-Ion Batteries. Batteries and Supercaps, 2021, 4, 268-285.	2.4	55
12	Formation mechanism of electrodeposited Sb/Sb2O3 micro-composites. Electrochimica Acta, 2021, 366, 137430.	2.6	5
13	Evaluation of Indium Tin Oxide for Gas Sensing Applications: Adsorption/Desorption and Electrical Conductivity Studies on Powders and Thick Films. Sensors, 2021, 21, 497.	2.1	8
14	Production and Properties of High Entropy Carbide Based Hardmetals. Metals, 2021, 11, 271.	1.0	21
15	Studies of Indium Tin Oxide-Based Sensing Electrodes in Potentiometric Zirconia Solid Electrolyte Gas Sensors. Sensors, 2021, 21, 2345.	2.1	3
16	Preparation of high-entropy carbides by different sintering techniques. Journal of Materials Science, 2021, 56, 11237-11247.	1.7	24
17	Determining the Diffusion Coefficient of Lithium Insertion Cathodes from GITT measurements: Theoretical Analysis for low Temperatures**. ChemPhysChem, 2021, 22, 885-893.	1.0	30
18	Electrochemical Characterization of Battery Materials in 2-Electrode Half-Cell Configuration: A Balancing Act Between Simplicity and Pitfalls. Batteries and Supercaps, 2021, 4, 1310-1322.	2.4	22

#	ARTICLE	IF	CITATIONS
19	Improvements of Micro-CHP SOFC System Operation by Efficient Dynamic Simulation Methods. Processes, 2021, 9, 1113.	1.3	1
20	Molecular Engineering Approaches to Fabricate Artificial Solidâ€Electrolyte Interphases on Anodes for Liâ€Ion Batteries: A Critical Review. Advanced Energy Materials, 2021, 11, 2101173.	10.2	50
21	Economic assessment of Power-to-Liquid processes â€ Influence of electrolysis technology and operating conditions. Applied Energy, 2021, 292, 116655.	5.1	35
22	Progress in SOC Development at Fraunhofer IKTS. ECS Transactions, 2021, 103, 307-326.	0.3	4
23	Ultra-low LPS/LLZO interfacial resistance â€ towards stable hybrid solid-state batteries with Li-metal anodes. Energy Storage Materials, 2021, 40, 259-267.	9.5	24
24	From Lithiumâ€Metal toward Anodeâ€Free Solidâ€State Batteries: Current Developments, Issues, and Challenges. Advanced Functional Materials, 2021, 31, 2106608.	7.8	98
25	Spatially-resolved reaction profiles in Fischer-Tropsch synthesis â€ influence of operating conditions and promotion for iron-based catalysts. Catalysis Communications, 2021, 158, 106335.	1.6	9
26	Assessment of fossil-free steelmaking based on direct reduction applying high-temperature electrolysis. Cleaner Engineering and Technology, 2021, 4, 100158.	2.1	11
27	Pattern formation during Sb/Sb ₂ O ₃ electrodeposition. Applied Surface Science, 2021, 563, 150206.	3.1	4
28	Understanding kinetic and thermodynamic properties of blended cathode materials for lithium-ion batteries. Materials Today Energy, 2021, 22, 100845.	2.5	2
29	From Active Materials to Battery Cells: A Straightforward Tool to Determine Performance Metrics and Support Developments at an Applicationâ€Relevant Level. Advanced Energy Materials, 2021, 11, 2102647.	10.2	23
30	Reaction of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ and LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ in Co-Sintered Composite Cathodes for Solid-State Batteries. ACS Applied Materials & Interfaces, 2021, 13, 47488-47498.	4.0	20
31	Economic evaluation of low-carbon steelmaking via coupling of electrolysis and direct reduction. Journal of Cleaner Production, 2021, 328, 129502.	4.6	13
32	Tailoring High-Frequency Ultrasonic Transducers Fabricated by the Soft Mold Process. , 2021, , .		0
33	Electrochemical single-particle measurements of electrode materials for Li-ion batteries: Possibilities, insights and implications for future development. Electrochimica Acta, 2020, 330, 135160.	2.6	29
34	Pressureless sintering and properties of boron carbide composite materials. International Journal of Applied Ceramic Technology, 2020, 17, 407-412.	1.1	7
35	Diffusionâ€Limited Câ€Rate: A Fundamental Principle Quantifying the Intrinsic Limits of Liâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1902523.	10.2	101
36	Application-oriented modeling and optimization of tailored Li-ion batteries using the concept of Diffusion Limited C-rate. Journal of Power Sources, 2020, 479, 228704.	4.0	15

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37	Intercalation materials for secondary batteries based on alkali metal exchange: developments and perspectives. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16854-16883.	5.2	19
38	Influence of Cemented Carbide Composition on Cutting Temperatures and Corresponding Hot Hardnesses. <i>Materials</i> , 2020, 13, 4571.	1.3	10
39	Process Data-Based Knowledge Discovery in Additive Manufacturing of Ceramic Materials by Multi-Material Jetting (CerAM MMJ). <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 74.	1.0	6
40	Lightweight Polymer-Carbon Composite Current Collector for Lithium-Ion Batteries. <i>Batteries</i> , 2020, 6, 60.	2.1	10
41	Electrodeposition of Versatile Nanostructured Sb/Sb ₂ O ₃ Microcomposites: A Parameter Study. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000004.	1.9	9
42	Facile fabrication of nanostructured alumina membranes. <i>Microporous and Mesoporous Materials</i> , 2020, 302, 110207.	2.2	9
43	Crack-healing in ytterbium silicate filled with silicon carbide particles. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5740-5748.	2.8	12
44	Influence of tool material properties on the wear behavior of cemented carbide tools with rounded cutting edges. <i>Wear</i> , 2020, 456-457, 203395.	1.5	17
45	Insights into the electrochemical Li/Na-exchange in layered LiCoO ₂ cathode material. <i>Energy Storage Materials</i> , 2020, 27, 377-386.	9.5	24
46	Chronoamperometry as an electrochemical in situ approach to investigate the electrolyte wetting process of lithium-ion cells. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 295-309.	1.5	12
47	3D-customized thin-walled ceramic mouldings produced by deep drawing of green tapes. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4911-4920.	2.8	0
48	Comparison of Electrochemical Degradation for Spray Dried and Pulse Gas Dried LiNi _{0.5} Mn _{1.5} O ₄ . <i>Journal of the Electrochemical Society</i> , 2019, 166, A2860-A2869.	1.3	6
49	Co-Electrolysis CFY-Stack Operation and Integration for Carbon Capture and Utilization. <i>ECS Transactions</i> , 2019, 91, 2579-2587.	0.3	4
50	Through Interface Optimization to New Generation of Robust Electrolyte Supported Cell with High Power Density. <i>ECS Transactions</i> , 2019, 91, 263-276.	0.3	0
51	Alternative Process Routes to Manufacture Porous Ceramics—Opportunities and Challenges. <i>Materials</i> , 2019, 12, 663.	1.3	16
52	Towards actuation improvement of low-profile piezo fibre composites by notched electrodes. <i>Sensors and Actuators A: Physical</i> , 2019, 291, 32-38.	2.0	3
53	Understanding thickness and porosity effects on the electrochemical performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ -based cathodes for high energy Li-ion batteries. <i>Journal of Power Sources</i> , 2019, 419, 119-126.	4.0	131
54	Multi-material Ceramic-Based Components – Additive Manufacturing of Black-and-white Zirconia Components by Thermoplastic 3D-Printing (CerAM - T3DP). <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	15

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55	Investigations on the Effective Electric Loads in Blended Insertion Electrodes for Lithium-ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 5728-5734.	1.7	14
56	Process development for additive manufacturing of functionally graded alumina toughened zirconia components intended for medical implant application. <i>Journal of the European Ceramic Society</i> , 2019, 39, 522-530.	2.8	64
57	Investigations on the reversible heat generation rates of blended Li-insertion electrodes. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 245-250.	1.2	6
58	Development of the local proton concentration during pulse anodizing. <i>Surface and Interface Analysis</i> , 2019, 51, 1154-1158.	0.8	1
59	Corrosion resistance of silicon-infiltrated silicon carbide (SiSiC). <i>Ceramics International</i> , 2018, 44, 10111-10118.	2.3	7
60	Evaluation of the pore morphology formation of the Freeze Foaming process by in situ computed tomography. <i>Journal of the European Ceramic Society</i> , 2018, 38, 3369-3378.	2.8	9
61	3D-cathode design with foam-like aluminum current collector for high energy density lithium-ion batteries. <i>Journal of Energy Storage</i> , 2018, 16, 125-132.	3.9	26
62	Semi-empirical master curve concept describing the rate capability of lithium insertion electrodes. <i>Journal of Power Sources</i> , 2018, 380, 83-91.	4.0	37
63	Novel poling method for piezoelectric $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ composites and transfer to series production. <i>Sensors and Actuators A: Physical</i> , 2018, 270, 231-239.	2.0	12
64	Recent insights into the electrochemical behavior of blended lithium insertion cathodes: A review. <i>Electrochimica Acta</i> , 2018, 269, 745-760.	2.6	46
65	Wear behavior of diamond-silicon nitride composites sintered with FAST/SPS. <i>Wear</i> , 2018, 396-397, 172-181.	1.5	16
66	Glass ceramics sealants for SOFC interconnects based on a high chromium sinter alloy. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 239-254.	1.1	15
67	Investigation of Droplet Deposition for Suspensions Usable for Thermoplastic 3D Printing (T3DP). <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 44-51.	1.2	16
68	Electrochemical machining of tungsten carbide. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 859-868.	1.2	12
69	Deconvolution of Cyclic Voltammograms for Blended Lithium Insertion Compounds by using a Model-Like Blend Electrode. <i>ChemElectroChem</i> , 2018, 5, 425-428.	1.7	10
70	Theoretical optimization of electrode design parameters of Si based anodes for lithium-ion batteries. <i>Journal of Energy Storage</i> , 2018, 15, 181-190.	3.9	21
71	Heat generation rates of NaFePO_4 electrodes for sodium-ion batteries and LiFePO_4 electrodes for lithium-ion batteries: a comparative study. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1099-1108.	1.2	10
72	Additive Manufacturing of Ceramic Heat Exchanger: Opportunities and Limits of the Lithography-Based Ceramic Manufacturing (LCM). <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 14-20.	1.2	109

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73	Investigation of the Foam Development Stages by Non-Destructive Testing Technology Using the Freeze Foaming Process. <i>Materials</i> , 2018, 11, 2478.	1.3	2
74	Development of Single-Fiber Piezocomposite Transducers for 3-D Ultrasound Computer Tomography. <i>Advanced Engineering Materials</i> , 2018, 20, 1800423.	1.6	11
75	Manufacturing Technologies of Piezoelectric Components for Integration into Lightweight Structures. <i>Advanced Engineering Materials</i> , 2018, 20, 1800431.	1.6	3
76	Internal dynamics of blended Li-insertion electrodes. <i>Journal of Energy Storage</i> , 2018, 20, 101-108.	3.9	11
77	Irreversible Made Reversible: Increasing the Electrochemical Capacity by Understanding the Structural Transformations of $\text{Na}_{0.5}\text{Co}_{0.5}\text{Ti}_{0.5}\text{O}_{2}$. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36108-36119.	4.0	10
78	Investigation of foam structure formation in the Freeze Foaming process based on in-situ computed tomography. <i>Results in Physics</i> , 2018, 11, 584-590.	2.0	3
79	Comparison of chronoamperometric response and rate-performance of porous insertion electrodes: Towards an accelerated rate capability test. <i>Journal of Power Sources</i> , 2018, 397, 11-15.	4.0	20
80	Scalable Fabrication of Nanostructured Tin Oxide Anodes for High-Energy Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27019-27029.	4.0	30
81	On the Stability of c-BN-Reinforcing Particles in Ceramic Matrix Materials. <i>Materials</i> , 2018, 11, 255.	1.3	21
82	Deriving Principles of the Freeze-Foaming Process by Nondestructive CT Macrostructure Analyses on Hydroxyapatite Foams. <i>Ceramics</i> , 2018, 1, 65-82.	1.0	4
83	Temperature induced compositional redistribution in blended insertion electrodes. <i>Journal of Power Sources</i> , 2017, 344, 170-175.	4.0	9
84	Optimization of the temperature program to scale up the stabilization of polyacrylonitrile fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 96, 37-45.	3.8	11
85	In-situ preparation and electrochemical characterization of submicron sized NaFePO_4 cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2017, 233, 78-84.	2.6	51
86	Electrochemical machining of a solid-state sintered ceramic “A parameter study. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 68, 19-23.	1.7	6
87	Reversible heat generation rates of blended insertion electrodes. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2109-2115.	1.2	3
88	Microstructural investigation of diamond-SiC composites produced by pressureless silicon infiltration. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1917-1928.	2.8	39
89	Insights into the buffer effect observed in blended lithium insertion electrodes. <i>Journal of Power Sources</i> , 2017, 363, 311-316.	4.0	12
90	Corrosion stability of Sialon-based materials in acids and basic solutions. <i>Ceramics International</i> , 2017, 43, 15519-15524.	2.3	4

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91	Interconnect Corrosion in Steam Containing Fuel Gas. ECS Transactions, 2017, 78, 1543-1558.	0.3	4
92	Optimization of ESC Performance for Co-Electrolysis Operation. ECS Transactions, 2017, 78, 3025-3037.	0.3	18
93	Co-Electrolysis with CFY-Stacks. ECS Transactions, 2017, 78, 3089-3102.	0.3	14
94	Microelectrochemical investigation of anodic oxide formation on the aluminum alloy AA2024. Electrochimica Acta, 2017, 249, 198-205.	2.6	18
95	Investigations of burning phenomena during the hard anodising of aluminium by local in-operando temperature measurements. Electrochimica Acta, 2017, 249, 271-277.	2.6	23
96	A process chain for integrating piezoelectric transducers into aluminum die castings to generate smart lightweight structures. Results in Physics, 2017, 7, 2534-2539.	2.0	10
97	Corrosion behaviour of bismuth-containing gold thick film electrodes. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 1389-1395.	0.8	2
98	SiC-bonded diamond materials produced by pressureless silicon infiltration. Journal of Materials Research, 2017, 32, 3362-3371.	1.2	16
99	Pressureless sintering of ZrC with variable stoichiometry. Journal of Advanced Ceramics, 2017, 6, 165-175.	8.9	23
100	Anodic dissolution of solid state sintered silicon carbide at high current densities. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 645-650.	0.8	2
101	Lifetime vs. rate capability: Understanding the role of FEC and VC in high-energy Li-ion batteries with nano-silicon anodes. Energy Storage Materials, 2017, 6, 26-35.	9.5	166
102	A Method for Analyzing Die Filling Process of Dry Compaction Shaping Operation. Chemie-Ingenieur-Technik, 2017, 89, 1220-1230.	0.4	0
103	Ceramic-Based 4D Components: Additive Manufacturing (AM) of Ceramic-Based Functionally Graded Materials (FGM) by Thermoplastic 3D Printing (T3DP). Materials, 2017, 10, 1368.	1.3	60
104	Influence of Electrode Design and Contacting Layers on Performance of Electrolyte Supported SOFC/SOEC Single Cells. Materials, 2016, 9, 906.	1.3	58
105	TEM investigation of barrier-like anodic oxide films on aluminum. Surface and Interface Analysis, 2016, 48, 906-912.	0.8	4
106	Characteristics of wet-spun and thermally treated poly acrylonitrile fibers. Journal of Applied Polymer Science, 2016, 133, .	1.3	11
107	Spark plasma sintering novel tooling design: temperature uniformization during consolidation of silicon nitride powder. Journal of the Ceramic Society of Japan, 2016, 124, 403-414.	0.5	15
108	Influence of the Anode Graphite Particle Size on the SEI Film Formation in Lithium-Ion Cells. , 2016, , 35-43.		0

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109	SoC dependent kinetic parameters of insertion electrodes from staircase μ ITT. Journal of Electroanalytical Chemistry, 2016, 767, 18-23.	1.9	7
110	Sodiation vs. Lithiation of FePO ₄ : A comparative kinetic study. Electrochimica Acta, 2016, 216, 412-419.	2.6	23
111	Platinum electrodeposition from a dinitrosulfatoplatinate(II) electrolyte. Applied Surface Science, 2016, 390, 333-338.	3.1	4
112	Formation of secondary borides in liquid phase-sintered B ₂ O ₃ materials. Journal of the European Ceramic Society, 2016, 36, 1549-1557.	2.8	2
113	Innovative and novel manufacturing methods of ceramics and metal-ceramic composites for biomedical applications. Journal of the European Ceramic Society, 2016, 36, 2883-2888.	2.8	41
114	Detailed study of heat generation in porous LiCoO ₂ electrodes. Journal of Power Sources, 2016, 307, 199-207.	4.0	45
115	TiO _x -Based Thermoelectric Modules: Manufacturing, Properties, and Operational Behavior. Journal of Electronic Materials, 2016, 45, 1570-1575.	1.0	8
116	Co-Sintering behaviour of zirconia-ferritic steel composites. AIMS Materials Science, 2016, 3, 1160-1176.	0.7	2
117	Influence of PAN-Fiber Stretching during Thermal Treatment on the Stabilization Reactions. American Journal of Analytical Chemistry, 2016, 07, 282-293.	0.3	12
118	Joining technologies for a temperature-stable integration of a LTCC-based pressure sensor. Journal of Sensors and Sensor Systems, 2016, 5, 73-83.	0.6	6
119	PZT components derived from polysulphone spinning process. Advances in Applied Ceramics, 2015, 114, 231-237.	0.6	15
120	Current Trends in Ceramic Technologies and Systems. , 2015, , 381-414.		0
121	Characteristics of a Continuous Direct Foaming Technique. International Journal of Applied Ceramic Technology, 2015, 12, E133-E138.	1.1	2
122	Advancement of Tooling for Spark Plasma Sintering. Journal of the American Ceramic Society, 2015, 98, 3529-3537.	1.9	37
123	Ink jet printable silver metallization with zinc oxide for front side metallization for micro crystalline silicon solar cells. Journal of Micromechanics and Microengineering, 2015, 25, 125021.	1.5	3
124	Aging Behavior of Reactive Air Brazed Seals for SOFC. Fuel Cells, 2015, 15, 735-741.	1.5	20
125	Non-contact printing: conductive track geometry affected by ink rheology and composition. Microsystem Technologies, 2015, 21, 1363-1369.	1.2	1
126	Pulse plating of manganese oxide nanoparticles on aligned MWCNT. Surface Engineering, 2015, 31, 214-220.	1.1	3

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127	Evaluation of piezo composite based omnidirectional single fibre transducers for 3D USCT. , 2015, , .		0
128	Analysis of the counter-electrode potential in a 3-electrode lithium ion battery cell. Journal of Electroanalytical Chemistry, 2015, 759, 91-94.	1.9	13
129	Interface Phenomena of Co-Sintered Steel-Zirconia Laminates. Materials Science Forum, 2015, 825-826, 289-296.	0.3	1
130	Electrochemical corrosion of silicon-infiltrated silicon carbide ceramics in aqueous solutions. Ceramics International, 2015, 41, 4422-4429.	2.3	7
131	TiOx Based Thermoelectric Modules â€œ Manufacturing, Properties and Operational Behavior. Materials Today: Proceedings, 2015, 2, 770-779.	0.9	4
132	Investigation of charge transfer kinetics of Li-Intercalation in LiFePO 4. Journal of Power Sources, 2015, 288, 115-120.	4.0	64
133	MagnÃ©li phases Ti4O7 and Ti8O15 and their carbon nanocomposites via the thermal decomposition-precursor route. Journal of Solid State Chemistry, 2015, 229, 235-242.	1.4	29
134	Synthesis and characterization of a sulfur containing hydroxy sodalite without sulfur radicals. Microporous and Mesoporous Materials, 2015, 214, 1-7.	2.2	18
135	Preparation and characterization of CVD-TiN-coated carbon fibers for applications in metal matrix composites. Thin Solid Films, 2015, 589, 479-486.	0.8	25
136	Application-Oriented Design and Field Trial of the Eneramic(R) Power Generator. ECS Transactions, 2015, 68, 131-141.	0.3	4
137	Wear of abrasive media and its effect on abrasive flow machining results. Wear, 2015, 342-343, 44-51.	1.5	60
138	SEI-component formation on sub 5 nm sized silicon nanoparticles in Li-ion batteries: the role of electrode preparation, FEC addition and binders. Physical Chemistry Chemical Physics, 2015, 17, 24956-24967.	1.3	129
139	Determination of state of charge-dependent asymmetric Butlerâ€œVolmer kinetics for LixCoO2 electrode using GITT measurements. Journal of Power Sources, 2015, 299, 156-161.	4.0	60
140	CFY-Stack Technology: The Next Design. ECS Transactions, 2015, 68, 2159-2168.	0.3	10
141	Local Heat Generation in a Single Stack Lithium Ion Battery Cell. Electrochimica Acta, 2015, 186, 404-412.	2.6	48
142	Fundamentals of sintering nanoscaled binderless hardmetals. International Journal of Refractory Metals and Hard Materials, 2015, 49, 124-132.	1.7	30
143	Anodic dissolution of cobalt in aqueous sodium nitrate solution at high current densities. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 549-556.	0.8	4
144	Reactive and non-reactive preparation of B6O materials by FAST/SPS. Journal of the European Ceramic Society, 2015, 35, 47-60.	2.8	6

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145	Development of laser-based joining technology for the fabrication of ceramic thermoelectric modules. <i>Journal of Materials Research</i> , 2014, 29, 1771-1780.	1.2	10
146	Electrochemical machining of hard metals – WC/Co as example. <i>Powder Metallurgy</i> , 2014, 57, 21-30.	0.9	27
147	Microscopic in-operando thermography at the cross section of a single lithium ion battery stack. <i>Electrochemistry Communications</i> , 2014, 48, 130-133.	2.3	10
148	Metal–Ceramic Layered Materials and Composites Manufactured Using Powder Techniques. <i>Advanced Engineering Materials</i> , 2014, 16, 1293-1302.	1.6	11
149	D2 Enertrode: Production Technologies and Component Integration of Nanostructured Carbon Electrodes for Energy Technology – Functionalized Carbon Materials for Efficient Electrical Energy Supply. <i>Advanced Engineering Materials</i> , 2014, 16, 1196-1201.	1.6	0
150	Manufacture and Testing of Thermoelectric Modules Consisting of B ₄ C and TiO ₂ Elements. <i>Advanced Engineering Materials</i> , 2014, 16, 1252-1263.	1.6	16
151	Fiber based structured materials for catalytic applications. <i>Applied Catalysis A: General</i> , 2014, 476, 78-90.	2.2	94
152	Grain growth during sintering of tungsten carbide ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 43, 309-316.	1.7	73
153	Electrochemical corrosion of silicon carbide ceramics in sodium hydroxide. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1687-1693.	2.8	29
154	Electrochemical corrosion of silicon carbide ceramics in H ₂ SO ₄ . <i>Journal of the European Ceramic Society</i> , 2014, 34, 229-235.	2.8	58
155	Laser-supported joining of SiC-fiber/SiCN ceramic matrix composites fabricated by precursor infiltration. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2913-2924.	2.8	19
156	Reactive sintering process and thermoelectric properties of boron rich boron carbides. <i>Journal of the European Ceramic Society</i> , 2014, 34, 327-336.	2.8	31
157	Active functionality of piezoceramic modules integrated in aluminum high pressure die castings. <i>Sensors and Actuators A: Physical</i> , 2014, 207, 84-90.	2.0	10
158	Electrochemical Machining of cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 47, 54-60.	1.7	22
159	Manufacturing Processes for TiO _x -Based Thermoelectric Modules: from Suboxide Synthesis to Module Testing. <i>Journal of Electronic Materials</i> , 2014, 43, 3765-3771.	1.0	12
160	Porous Perovskite Fibers – Preparation by Wet Phase Inversion Spinning and Catalytic Activity. <i>Chemical Engineering and Technology</i> , 2014, 37, 1146-1154.	0.9	6
161	In situ temperature measurement on the metal/oxide/electrolyte interface during the anodizing of aluminum. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 60-68.	0.8	10
162	Electrochemical corrosion of liquid phase sintered silicon carbide ceramics. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 218-224.	0.8	12

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163	Boron suboxide ultrahard materials. International Journal of Refractory Metals and Hard Materials, 2013, 39, 53-60.	1.7	53
164	Spectroscopic reflectometry as <i>in-operando</i> method for thickness determination of anodic oxide films on titanium. Surface and Interface Analysis, 2013, 45, 1247-1251.	0.8	2
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