Lars Giebeler

List of Publications by Year
in descending order

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146 papers	6,958 citations	50170 46 h-index	66788 78 g-index
149 all docs	149 docs citations	149 times ranked	10671 citing authors

#	Article	IF	Citations
1	Selective Adsorption and Separation of ortho-Substituted Alkylaromatics with the Microporous Aluminum Terephthalate MIL-53. Journal of the American Chemical Society, 2008, 130, 14170-14178.	6.6	376
2	Functional Mesoporous Carbonâ€Coated Separator for Longâ€Life, Highâ€Energy Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2015, 25, 5285-5291.	7.8	374
3	Fast and Selective Sugar Conversion to Alkyl Lactate and Lactic Acid with Bifunctional Carbonâ€“Silica Catalysts. Journal of the American Chemical Society, 2012, 134, 10089-10101.	6.6	337
4	Direct catalytic conversion of cellulose to liquid straight-chain alkanes. Energy and Environmental Science, 2015, 8, 230-240.	15.6	202
5	Metal-based nanostructured materials for advanced lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 23127-23168.	5.2	195
6	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2013, 15, 6080.	1.3	167
7	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
8	Cooperative Catalysis for Multistep Biomass Conversion with Sn/Al Beta Zeolite. ACS Catalysis, 2015, 5, 928-940.	5.5	164
9	Synergistically Enhanced Polysulfide Chemisorption Using a Flexible Hybrid Separator with N and S Dual-Doped Mesoporous Carbon Coating for Advanced Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 14586-14595.	4.0	153
10	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. Chemistry of Materials, 2014, 26, 1074-1083.	3.2	148
11	Microstructure and properties of FeCrMoVC tool steel produced by selective laser melting. Materials and Design, 2016, 89, 335-341.	3.3	135
12	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
13	Microstructure and mechanical properties of a heat-treatable Al-3.5Cu-1.5Mg-1Si alloy produced by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 562-570.	2.6	121
14	Mesoporous Carbon Interlayers with Tailored Pore Volume as Polysulfide Reservoir for High-Energy Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2015, 119, 4580-4587.	1.5	120
15	Current Advances in TiO2-Based Nanostructure Electrodes for High Performance Lithium Ion Batteries. Batteries, 2018, 4, 7.	2.1	116
16	Improved cycling stability of lithiumâ€“sulfur batteries using a polypropylene-supported nitrogen-doped mesoporous carbon hybrid separator as polysulfide adsorbent. Journal of Power Sources, 2016, 303, 317-324.	4.0	114
17	Solventâ€Free Mechanochemical Synthesis of Nitrogenâ€Doped Nanoporous Carbon for Electrochemical Energy Storage. ChemSusChem, 2017, 10, 2416-2424.	3.6	109
18	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO_x by Chemical Vapor Deposition. ACS Nano, 2017, 11, 1946-1956.	7.3	108

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19	Direct Observation of Molecularâ€Level Template Action Leading to Selfâ€Assembly of a Porous Framework. Chemistry - A European Journal, 2010, 16, 3926-3932.	1.7	106
20	Hierarchical Carbideâ€Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energyâ€Storage Material. Advanced Energy Materials, 2014, 4, 1300645.	10.2	96
21	Lightweight, free-standing 3D interconnected carbon nanotube foam as a flexible sulfur host for high performance lithium-sulfur battery cathodes. Energy Storage Materials, 2018, 10, 206-215.	9.5	91
22	Role of 1,3-Dioxolane and LiNO₃Addition on the Long Term Stability of Nanostructured Silicon/Carbon Anodes for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2016, 163, A557-A564.	1.3	83
23	Enhanced polysulphide redox reaction using a RuO₂ nanoparticle-decorated mesoporous carbon as functional separator coating for advanced lithiumâ€“sulphur batteries. Chemical Communications, 2016, 52, 8134-8137.	2.2	81
24	Nitrogenâ€Doped Biomassâ€Derived Carbon Formed by Mechanochemical Synthesis for Lithiumâ€“Sulfur Batteries. ChemSusChem, 2019, 12, 310-319.	3.6	81
25	The Importance of Pore Size and Surface Polarity for Polysulfide Adsorption in Lithium Sulfur Batteries. Advanced Materials Interfaces, 2016, 3, 1600508.	1.9	76
26	Binding Energy Referencing for XPS in Alkali Metal-Based Battery Materials Research (II): Application to Complex Composite Electrodes. Batteries, 2018, 4, 36.	2.1	75
27	Elastic softening of Î²-type Tiâ€“Nb alloys by indium (In) additions. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 39, 162-174.	1.5	73
28	Heterogeneously catalysed partial oxidation of acrolein to acrylic acidâ€”structure, function and dynamics of the Vâ€“Moâ€“W mixed oxides. Physical Chemistry Chemical Physics, 2007, 9, 3577-3589.	1.3	72
29	Titania-Silica Catalysts for Lactide Production from Renewable Alkyl Lactates: Structureâ€“Activity Relations. ACS Catalysis, 2018, 8, 8130-8139.	5.5	70
30	High Area Capacity Lithium-Sulfur Full-cell Battery with Prelitiathed Silicon Nanowire-Carbon Anodes for Long Cycling Stability. Scientific Reports, 2016, 6, 27982.	1.6	69
31	Reconfiguration of lithium sulphur batteries: â€œEnhancement of Liâ€“S cell performance by employing a highly porous conductive separator coatingâ€• Journal of Power Sources, 2016, 309, 76-81.	4.0	69
32	A novel high-throughput setup forin situpowder diffraction on coin cell batteries. Journal of Applied Crystallography, 2016, 49, 340-345.	1.9	68
33	On the mechanistic role of nitrogen-doped carbon cathodes in lithium-sulfur batteries with low electrolyte weight portion. Nano Energy, 2018, 54, 116-128.	8.2	67
34	Composition-dependent magnitude of atomic shuffles in Tiâ€“Nb martensites. Journal of Applied Crystallography, 2014, 47, 1374-1379.	1.9	65
35	Processing of Ti-5553 with improved mechanical properties via an in-situ heat treatment combining selective laser melting and substrate plate heating. Materials and Design, 2017, 130, 83-89.	3.3	64
36	Role of Surface Functional Groups in Ordered Mesoporous Carbide-Derived Carbon/Ionic Liquid Electrolyte Double-Layer Capacitor Interfaces. ACS Applied Materials & Interfaces, 2014, 6, 2922-2928.	4.0	61

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37	Effect of thermomechanical processing on the mechanical biofunctionality of a low modulus Ti-40Nb alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 137-150.	1.5	61
38	Advances inin situpowder diffraction of battery materials: a case study of the new beamline P02.1 at DESY, Hamburg. Journal of Applied Crystallography, 2013, 46, 1117-1127.	1.9	57
39	Anodically Grown Binder-Free Nickel Hexacyanoferrate Film: Toward Efficient Water Reduction and Hexacyanoferrate Film Based Full Device for Overall Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 18015-18021.	4.0	56
40	Asymmetric first-order transition and interlocked particle state in magnetocaloric La(Fe,Si)₁₃. Physica Status Solidi - Rapid Research Letters, 2015, 9, 136-140.	1.2	54
41	Low Voltage Transmission Electron Microscopy of Graphene. Small, 2015, 11, 515-542.	5.2	54
42	Effect of cerium addition on microstructure and mechanical properties of high-strength Fe85Cr4Mo8V2C1 cast steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 366-374.	2.6	52
43	Progress and challenges in using sustainable carbon anodes in rechargeable metal-ion batteries. Progress in Energy and Combustion Science, 2021, 87, 100929.	15.8	52
44	Novel Solid-State Solar Cell Based on Hole-Conducting MOF-Sensitizer Demonstrating Power Conversion Efficiency of 2.1%. ACS Applied Materials & Interfaces, 2017, 9, 12930-12935.	4.0	51
45	Self-Organized TiO₂/CoO Nanotubes as Potential Anode Materials for Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2015, 3, 909-919.	3.2	50
46	Softwood Lignin as a Sustainable Feedstock for Porous Carbons as Active Material for Supercapacitors Using an Ionic Liquid Electrolyte. ACS Sustainable Chemistry and Engineering, 2017, 5, 4094-4102.	3.2	50
47	Silicon oxycarbide-derived carbons from a polyphenylsilsequioxane precursor for supercapacitor applications. Microporous and Mesoporous Materials, 2014, 188, 140-148.	2.2	48
48	Nanosized Li2S-based cathodes derived from MoS2 for high-energy density Liâ€“S cells and Siâ€“Li2S full cells in carbonate-based electrolyte. Energy Storage Materials, 2017, 8, 209-216.	9.5	47
49	Anodically fabricated TiO₂â€“SnO₂nanotubes and their application in lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 5542-5552.	5.2	46
50	Size-dependent structural, magnetic, and optical properties of MnCo2O4 nanocrystallites. Journal of Applied Physics, 2017, 121, .	1.1	45
51	LaMnO₃ Perovskite Supported Noble Metal Catalysts for the Total Oxidation of Methane. Chemical Engineering and Technology, 2007, 30, 889-894.	0.9	44
52	Tailoring Hollow Siliconâ€“Carbon Nanocomposites As High-Performance Anodes in Secondary Lithium-Based Batteries through Economical Chemistry. Chemistry of Materials, 2015, 27, 37-43.	3.2	42
53	In Situ Raman Spectroscopy on Silicon Nanowire Anodes Integrated in Lithium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A5378-A5385.	1.3	42
54	Microstructure and abrasive wear behavior of a novel FeCrMoVC laser cladding alloy for high-performance tool steels. Wear, 2017, 382-383, 107-112.	1.5	41

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55	Microstructure, mechanical behavior, and wear properties of FeCrMoVC steel prepared by selective laser melting and casting. Scripta Materialia, 2017, 126, 41-44.	2.6	41
56	Fully sp²â€Carbonâ€Linked Crystalline Twoâ€Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. Chemistry - A European Journal, 2019, 25, 6562-6568.	1.7	40
57	Surface and Electrochemical Studies on Silicon Diphosphide as Easy-to-Handle Anode Material for Lithium-Based Batteriesâ€"the Phosphorus Path. ACS Applied Materials & Interfaces, 2018, 10, 7096-7106.	4.0	39
58	Synthesis and toxicity characterization of carbon coated iron oxide nanoparticles with highly defined size distributions. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 160-169.	1.1	38
59	Hollow carbon nano-onions with hierarchical porosity derived from commercial metal organic framework. Carbon, 2014, 79, 302-309.	5.4	38
60	Structural changes of vanadiumâ€"molybdenumâ€"tungsten mixed oxide catalysts during the selective oxidation of acrolein to acrylic acid. Journal of Molecular Catalysis A, 2006, 259, 309-318.	4.8	36
61	Structural Aspects of P2â€Type Na_{0.67}Mn_{0.6}Ni_{0.2}Li_{0.2}O₂ (MNL) Stabilization by Lithium Defects as a Cathode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2102939.	7.8	35
62	A facile method to stabilize sodium metal anodes towards high-performance sodium batteries. Journal of Materials Chemistry A, 2021, 9, 9038-9047.	5.2	34
63	Novel in situ cell for Raman diagnostics of lithium-ion batteries. Review of Scientific Instruments, 2013, 84, 073109.	0.6	33
64	Enhanced Acidity and Accessibility in Al-MCM-41 through Aluminum Activation. Chemistry of Materials, 2016, 28, 7731-7743.	3.2	32
65	Electrodeposited films to MOF-derived electrochemical energy storage electrodes: a concept of simplified additive-free electrode processing for self-standing, ready-to-use materials. Journal of Materials Chemistry A, 2017, 5, 18420-18428.	5.2	32
66	CO2reverse selective mixed matrix membranes for H2purification by incorporation of carbonâ€"silica fillers. Journal of Materials Chemistry A, 2013, 1, 945-953.	5.2	31
67	Hierarchically nanostructured hollow carbon nanospheres for ultra-fast and long-life energy storage. Carbon, 2016, 106, 306-313.	5.4	31
68	Effect of short-term tempering on microstructure and mechanical properties of high-strength FeCrMoVC. Acta Materialia, 2012, 60, 4468-4476.	3.8	30
69	Low-Temperature Tailoring of Copper-Deficient Cu_{3â€"x}Pâ€"Electric Properties, Phase Transitions, and Performance in Lithium-Ion Batteries. Chemistry of Materials, 2018, 30, 7111-7123.	3.2	30
70	Selective laser melting of ultra-high-strength TRIP steel: processing, microstructure, and properties. Journal of Materials Science, 2017, 52, 4944-4956.	1.7	29
71	Capacitance performance of cobalt hydroxide-based capacitors with utilization of near-neutral electrolytes. Electrochimica Acta, 2013, 90, 166-170.	2.6	28
72	Dichlorosilane-derived nano-silicon inside hollow carbon spheres as a high-performance anode for Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 9262-9271.	5.2	28

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73	S and B microalloying of biodegradable Fe-30Mn-1C - Effects on microstructure, tensile properties, in vitro degradation and cytotoxicity. Materials and Design, 2018, 142, 22-35.	3.3	28
74	LiV₃O₈-Based Functional Separator Coating as Effective Polysulfide Mediator for Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 2893-2899.	2.5	27
75	Hierarchical Tiâ€Beta Obtained by Simultaneous Desilication and Titanation as an Efficient Catalyst for Cyclooctene Epoxidation. ChemCatChem, 2017, 9, 3860-3869.	1.8	26
76	Silicon monophosphide as a possible lithium battery anode material. Journal of Materials Chemistry A, 2018, 6, 19974-19978.	5.2	26
77	Effect of cooling rate on the microstructure and properties of FeCrVC. Journal of Alloys and Compounds, 2015, 634, 200-207.	2.8	25
78	Alloying Behavior of Selfâ€Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, 13446-13450.	1.7	25
79	Face Centred Cubic Multi-Component Equiatomic Solid Solutions in the Au-Cu-Ni-Pd-Pt System. Metals, 2017, 7, 135.	1.0	25
80	An Efficient Two-Polymer Binder for High-Performance Silicon Nanoparticle-Based Lithium-Ion Batteries: A Systematic Case Study with Commercial Polyacrylic Acid and PolyvinylÂButyral Polymers. Journal of the Electrochemical Society, 2019, 166, A5275-A5286.	1.3	24
81	Functionalised porous nanocomposites: a multidisciplinary approach to investigate designed structures for supercapacitor applications. Journal of Materials Chemistry A, 2013, 1, 4904.	5.2	22
82	Magnetic field assisted nanoparticle dispersion. Chemical Communications, 2008, , 47-49.	2.2	21
83	NaAlH4 confined in ordered mesoporous carbon. International Journal of Hydrogen Energy, 2013, 38, 8829-8837.	3.8	21
84	A top-down approach to build Li2S@rGO cathode composites for high-loading lithiumâ€“sulfur batteries in carbonate-based electrolyte. Electrochimica Acta, 2019, 296, 243-250.	2.6	21
85	Microstructure Evolution During Spark Plasma Sintering of Metastable (ZrO₂â€“3 mol%) Tj ETQq1 1 0.784314 rgBT /Ov the American Ceramic Society, 2010, 93, 2864-2870.	1.9	20
86	Local magnetism and structural properties of Heusler<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Ni</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">MnGa</mml:mi></mml:math>alloys. Physical Review B, 2015, 91, .	1.1	20
87	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO2 upon Li Extraction and Insertion. Inorganic Chemistry, 2016, 55, 7079-7089.	1.9	20
88	Electrodeposition of manganese layers from sustainable sulfate based electrolytes. Surface and Coatings Technology, 2018, 334, 261-268.	2.2	20
89	MXenes in lithiumâ€“sulfur batteries: Scratching the surface of a complex 2D material â€“ A minireview. Materials Today Communications, 2021, 27, 102323.	0.9	20
90	Microstructural and mechanical characterization of an ultra-high-strength Fe86.7Cr4.4Mo0.6V1.1W2.5C4.7 alloy. Journal of Materials Science, 2012, 47, 267-271.	1.7	19

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91	Graphitic nanocrystals inside the pores of mesoporous silica: Synthesis, characterization and an adsorption study. Microporous and Mesoporous Materials, 2011, 144, 120-133.	2.2	18
92	The effect of boron on microstructure and mechanical properties of high-strength cast FeCrVC. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 586, 267-275.	2.6	17
93	B1â€Mobilstor: Materials for Sustainable Energy Storage Techniques â€“ Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage. Advanced Engineering Materials, 2014, 16, 1189-1195.	1.6	17
94	Highâ€Pressureâ€Sinteringâ€Induced Microstructural Engineering for an Ultimate Phonon Scattering of Thermoelectric Halfâ€Heusler Compounds. Small, 2021, 17, e2102045.	5.2	17
95	The impact of surface morphology on the magnetovolume transition in magnetocaloric LaFe_{11.8}Si_{1.2}. APL Materials, 2016, 4, 106101.	2.2	16
96	Electrochemical behavior of LiV3O8 positive electrode in hybrid Li,Naâ€“ion batteries. Journal of Power Sources, 2018, 373, 1-10.	4.0	15
97	Operando Studies of Antiperovskite Lithium Battery Cathode Material (Li₂Fe)SO. ACS Applied Energy Materials, 2018, 1, 6593-6599.	2.5	15
98	Study on the reversible Li-insertion of amorphous and partially crystalline Al86Ni8La6 and Al86Ni8Y6 alloys as anode materials for Li-ion batteries. Electrochimica Acta, 2012, 60, 85-94.	2.6	14
99	Ternary CNTs@TiO2/CoO Nanotube Composites: Improved Anode Materials for High Performance Lithium Ion Batteries. Materials, 2017, 10, 678.	1.3	14
100	On the origin of mesopore collapse in functionalized porous carbons. Carbon, 2019, 149, 743-749.	5.4	14
101	Investigation of Copper-Cobalt-Oxides as Model Systems for Composite Interactions in Conversion-Type Electrodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1333-A1339.	1.3	13
102	Co(II) ethylene glycol carboxylates for Co3O4 nanoparticle and nanocomposite formation. Journal of Materials Science, 2017, 52, 6697-6711.	1.7	13
103	Fluorescent magnetic nanoparticles for modulating the level of intracellular Ca²⁺ in motoneurons. Nanoscale, 2019, 11, 16103-16113.	2.8	13
104	Improving the thermoelectric performance of ZrNi(In,Sb)-based double half-Heusler compounds. Journal of Materials Chemistry A, 2022, 10, 13476-13483.	5.2	13
105	Naâ€“Sbâ€“Sn ternary phase diagram at room temperature for potential anode materials in sodium-ion batteries. Solid State Ionics, 2014, 268, 261-264.	1.3	12
106	Electrodeposited metal-organic framework films as self-assembled hierarchically superstructured supports for stable omniphobic surface coatings. Scientific Reports, 2018, 8, 15400.	1.6	12
107	ROS-generation and cellular uptake behavior of amino-silica nanoparticles arisen from their uploading by both iron-oxides and hexamolybdenum clusters. Materials Science and Engineering C, 2020, 117, 111305.	3.8	12
108	Phase transitions of V-Mo-W mixed oxides during reduction/re-oxidation cycles. Applied Catalysis A: General, 2010, 379, 155-165.	2.2	11

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109	XPS and AES sputterâ€depth profiling at surfaces of biocompatible passivated Tiâ€based alloys: concentration quantification considering chemical effects. Surface and Interface Analysis, 2014, 46, 683-688.	0.8	11
110	Electrochemical Behavior of Microparticulate Silicon Anodes in Ether-Based Electrolytes: Why Does LiNO₃ Affect Negatively?. ACS Applied Energy Materials, 2019, 2, 4411-4420.	2.5	11
111	Revisiting the Crystal Structure of BaCe_{0.4}Zr_{0.4}Y_{0.2}O_{3â^Î´} Proton Conducting Perovskite and Its Correlation with Transport Properties. ACS Applied Energy Materials, 2020, 3, 2881-2892.	2.5	11
112	Characterization of V-W and Mo-W Mixed Oxide Catalysts for the Selective Oxidation of Acrolein to Acrylic Acid. Zeitschrift Fur Physikalische Chemie, 2007, 221, 1525-1548.	1.4	10
113	Interactions of Copper and Iron in Conversion Reactions of Nanosized Oxides with Large Variations in Iron-Copper Ratio. Journal of the Electrochemical Society, 2011, 158, A1383.	1.3	10
114	Irreversible Made Reversible: Increasing the Electrochemical Capacity by Understanding the Structural Transformations of Na_xCo_{0.5}Ti_{0.5}O₂. ACS Applied Materials & Interfaces, 2018, 10, 36108-36119.	4.0	10
115	MXenes and the progress of Liâ€“S battery developmentâ€”a perspective. JPhys Energy, 2021, 3, 021002.	2.3	10
116	Effect of silver additions on the microstructure, mechanical properties and corrosion behavior of biodegradable Fe-30Mn-6Si. Materials Today Communications, 2021, 28, 102689.	0.9	9
117	Growth, characterization, and magnetic properties of a Li(Mn,Ni)PO4 single crystal. Journal of Crystal Growth, 2014, 386, 16-21.	0.7	8
118	Wettability and work of adhesion of liquid sulfur on carbon materials for electrical energy storage applications. Carbon, 2016, 98, 702-707.	5.4	8
119	Mechanochemical Functionalization of Carbon Black at Room Temperature. Journal of Carbon Research, 2018, 4, 14.	1.4	8
120	Thermodynamic assessment and first principle calculations of the Na Sb Sn system. Journal of Alloys and Compounds, 2017, 695, 1725-1742.	2.8	7
121	Synthetic and Catalytic Potential of Amorphous Mesoporous Aluminosilicates Prepared by Postsynthetic Aluminations of Silica in Aqueous Media. ChemCatChem, 2018, 10, 1385-1397.	1.8	7
122	One-Pot Synthesis of Graphene-Sulfur Composites for Li-S Batteries: Influence of Sulfur Precursors. Journal of Carbon Research, 2018, 4, 2.	1.4	7
123	MOFâ€Derived Onionâ€Like Carbon with Superior Surface Area and Porosity for High Performance Lithiumâ€Ion Capacitors. Batteries and Supercaps, 2022, 5, .	2.4	6
124	Peculiarities of anisotropic electrical resistivity in Lu2PdSi3 single crystals. CrystEngComm, 2013, 15, 9052.	1.3	5
125	Amorphous Li-Al-Based Compounds: A Novel Approach for Designing High Performance Electrode Materials for Li-Ion Batteries. Inorganics, 2013, 1, 14-31.	1.2	5
126	Amphiphiles with polyethyleneoxideâ€“polyethylenecarbonate chains for hydrophilic coating of iron oxide cores, loading by Gd(III) ions and tuning R2/R1 ratio. Reactive and Functional Polymers, 2016, 99, 107-113.	2.0	5

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127	Comparative study of the sustainable preparation of FeMn thin films via electrodeposition and magnetron co-sputtering. Surface and Coatings Technology, 2019, 375, 182-196.	2.2	5
128	TiNb₂O₇ and VNb₉O₂₅ of ReO₃ Type in Hybrid Mgâ€“Li Batteries: Electrochemical and Interfacial Insights. Journal of Physical Chemistry C, 2020, 124, 25239-25248.	1.5	5
129	Ordered Ti-Fe-O nanotubes as additive-free anodes for lithium ion batteries. Applied Materials Today, 2020, 20, 100676.	2.3	5
130	Highly Efficient Multicomponent Gel Biopolymer Binder Enables Ultrafast Cycling and Applicability in Diverse Battery Formats. ACS Applied Materials & Interfaces, 2020, 12, 53827-53840.	4.0	5
131	T2- and T1 relaxivities and magnetic hyperthermia of iron-oxide nanoparticles combined with paramagnetic Gd complexes. Journal of Chemical Sciences, 2021, 133, 1.	0.7	4
132	Coexistence of conversion and intercalation mechanisms in lithium ion batteries: Consequences for microstructure and interaction between the active material and electrolyte. International Journal of Materials Research, 2017, 108, 971-983.	0.1	3
133	A Highly Conductive Gel Polymer Electrolyte for Liâ€“Mg Hybrid Batteries. ACS Applied Energy Materials, 2021, 4, 1906-1914.	2.5	3
134	Synthesis of micro- and nanosheets of CrCl₃â€“RuCl₃ solid solution by chemical vapour transport. Nanoscale, 2022, 14, 10483-10492.	2.8	3
135	Unusual oxidation behavior of light metal hydride by tetrahydrofuran solvent molecules confined in ordered mesoporous carbon. Journal of Materials Research, 2014, 29, 55-63.	1.2	2
136	Anionic polymerization of multi-vinylferrocenes. Journal of Organometallic Chemistry, 2017, 853, 149-158.	0.8	2
137	Synthesis, Characterization, and Electrochemistry of Layered Chalcogenides LiCuCh (Ch) Tj ETQq1 1 0.784314 rgBT /Ov	1.9	2
138	Novel Fe-0.3Cr-0.4Mo-1.5Mnâ€“3Ni-0.6C tool steel with superior properties under quasi-static and dynamic loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142156.	2.6	2
139	The role of electrons during the martensitic phase transformation in NiTi-based shape memory alloys. Materials Today Physics, 2022, 24, 100671.	2.9	2
140	Novel corrosionâ€resistant tool steels with superior wear properties. Advanced Engineering Materials, 0, , .	1.6	1
141	Preparation and Cycling Performance of Iron or Iron Oxide Containing Amorphous Al-Li Alloys as Electrodes. Inorganics, 2014, 2, 674-682.	1.2	0
142	D2 Enertrode: Production Technologies and Component Integration of Nanostructured Carbon Electrodes for Energy Technologyâ€”Functionalized Carbon Materials for Efficient Electrical Energy Supply. Advanced Engineering Materials, 2014, 16, 1196-1201.	1.6	0
143	Reversible phase transition in precious metal-doped LaMnO3perovskites. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s187-s187.	0.3	0
144	Structure investigations in the V-Mo-Te-O system. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s160-s160.	0.3	0

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145	Structural characterisation of lanthanum manganese perovskite catalysts by in-situ X-ray powder diffraction. , 2011, , 307-312.		0
146	Upscaling sub-nano-sized silicon particles. Nature Energy, 2021, 6, 1092-1093.	19.8	0