

Lars Borchardt

List of Publications by Year in descending order

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125
papers

8,243
citations

43973

48
h-index

49773

87
g-index

133
all docs

133
docs citations

133
times ranked

9427
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct prediction of the desalination performance of porous carbon electrodes for capacitive deionization. <i>Energy and Environmental Science</i> , 2013, 6, 3700.	15.6	461
2	High-Rate Electrochemical Capacitors Based on Ordered Mesoporous Silicon Carbide-Derived Carbon. <i>ACS Nano</i> , 2010, 4, 1337-1344.	7.3	447
3	Carbon Materials for Lithium Sulfur Batteries—Ten Critical Questions. <i>Chemistry - A European Journal</i> , 2016, 22, 7324-7351.	1.7	353
4	Sulfur-Infiltrated Micro- and Mesoporous Silicon Carbide-Derived Carbon Cathode for High-Performance Lithium Sulfur Batteries. <i>Advanced Materials</i> , 2013, 25, 4573-4579.	11.1	296
5	Hierarchical Micro- and Mesoporous Carbide-Derived Carbon as a High-Performance Electrode Material in Supercapacitors. <i>Small</i> , 2011, 7, 1108-1117.	5.2	283
6	Tailoring porosity in carbon materials for supercapacitor applications. <i>Materials Horizons</i> , 2014, 1, 157-168.	6.4	278
7	Bimetallic Aerogels: High-Performance Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9849-9852.	7.2	246
8	Fungi-based porous carbons for CO ₂ adsorption and separation. <i>Journal of Materials Chemistry</i> , 2012, 22, 13911.	6.7	204
9	Toward a molecular design of porous carbon materials. <i>Materials Today</i> , 2017, 20, 592-610.	8.3	202
10	Highly porous nitrogen-doped polyimine-based carbons with adjustable microstructures for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10951.	5.2	189
11	High-Performance Electrocatalysis on Palladium Aerogels. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5743-5747.	7.2	181
12	Imine-Linked Polymer-Derived Nitrogen-Doped Microporous Carbons with Excellent CO ₂ Capture Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3160-3167.	4.0	158
13	Mechanochemical Friedel-Crafts Alkylation—A Sustainable Pathway Towards Porous Organic Polymers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6859-6863.	7.2	150
14	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 1074-1083.	3.2	148
15	A cubic ordered, mesoporous carbide-derived carbon for gas and energy storage applications. <i>Carbon</i> , 2010, 48, 3987-3992.	5.4	140
16	High capacity micro-mesoporous carbon-sulfur nanocomposite cathodes with enhanced cycling stability prepared by a solvent-free procedure. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9225.	5.2	138
17	Carbide-Derived Carbon Monoliths with Hierarchical Pore Architectures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7577-7580.	7.2	131
18	Controlling the Growth of Palladium Aerogels with High-Performance toward Bioelectrocatalytic Oxidation of Glucose. <i>Journal of the American Chemical Society</i> , 2014, 136, 2727-2730.	6.6	124

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19	Twin Polymerization at Spherical Hard Templates: An Approach to Size-Adjustable Carbon Hollow Spheres with Micro- or Mesoporous Shells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6088-6091.	7.2	123
20	Ordered mesoporous carbide derived carbons for high pressure gas storage. <i>Carbon</i> , 2010, 48, 1707-1717.	5.4	115
21	3D Assembly of Semiconductor and Metal Nanocrystals: Hybrid CdTe/Au Structures with Controlled Content. <i>Journal of the American Chemical Society</i> , 2011, 133, 13413-13420.	6.6	112
22	Solvent-Free Mechanochemical Synthesis of Nitrogen-Doped Nanoporous Carbon for Electrochemical Energy Storage. <i>ChemSusChem</i> , 2017, 10, 2416-2424.	3.6	109
23	The mechanochemical synthesis of polymers. <i>Chemical Society Reviews</i> , 2022, 51, 2873-2905.	18.7	108
24	A new route for the preparation of mesoporous carbon materials with high performance in lithium-sulphur battery cathodes. <i>Chemical Communications</i> , 2013, 49, 5832.	2.2	97
25	Ordered Mesoporous Carbide Derived Carbons: Novel Materials for Catalysis and Adsorption. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7755-7761.	1.5	96
26	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy Storage Material. <i>Advanced Energy Materials</i> , 2014, 4, 1300645.	10.2	96
27	Interaction of electrolyte molecules with carbon materials of well-defined porosity: characterization by solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15177.	1.3	90
28	PEGylated hollow mesoporous silica nanoparticles as potential drug delivery vehicles. <i>Microporous and Mesoporous Materials</i> , 2011, 141, 199-206.	2.2	89
29	Direct Mechano catalysis: Using Milling Balls as Catalysts. <i>Chemistry - A European Journal</i> , 2020, 26, 12903-12911.	1.7	86
30	Self-Supporting Hierarchical Porous PtAg Alloy Nanotubular Aerogels as Highly Active and Durable Electrocatalysts. <i>Chemistry of Materials</i> , 2016, 28, 6477-6483.	3.2	81
31	Nitrogen-Doped Biomass-Derived Carbon Formed by Mechanochemical Synthesis for Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2019, 12, 310-319.	3.6	81
32	Revising the Concept of Pore Hierarchy for Ionic Transport in Carbon Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1800892.	10.2	79
33	Preparation and application of cellular and nanoporous carbides. <i>Chemical Society Reviews</i> , 2012, 41, 5053.	18.7	78
34	The Importance of Pore Size and Surface Polarity for Polysulfide Adsorption in Lithium Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600508.	1.9	76
35	Direct Mechano catalysis: Palladium as Milling Media and Catalyst in the Mechanochemical Suzuki Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18942-18947.	7.2	75
36	Illuminating solid gas storage in confined spaces - methane hydrate formation in porous model carbons. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20607-20614.	1.3	73

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37	Mechanochemical Suzuki polycondensation “ from linear to hyperbranched polyphenylenes. <i>Green Chemistry</i> , 2017, 19, 2973-2979.	4.6	69
38	A guide to direct mechanocatalysis. <i>Chemical Communications</i> , 2022, 58, 1661-1671.	2.2	64
39	Mechanochemical polymerization “ controlling a polycondensation reaction between a diamine and a dialdehyde in a ball mill. <i>RSC Advances</i> , 2016, 6, 64799-64802.	1.7	63
40	Role of Surface Functional Groups in Ordered Mesoporous Carbide-Derived Carbon/Ionic Liquid Electrolyte Double-Layer Capacitor Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2922-2928.	4.0	61
41	Mixed Aerogels from Au and CdTe Nanoparticles. <i>Advanced Functional Materials</i> , 2013, 23, 1903-1911.	7.8	60
42	The mechanochemical Scholl reaction “ a solvent-free and versatile graphitization tool. <i>Chemical Communications</i> , 2018, 54, 5307-5310.	2.2	59
43	Methane Hydrate in Confined Spaces: An Alternative Storage System. <i>ChemPhysChem</i> , 2018, 19, 1298-1314.	1.0	59
44	Micro- and mesoporous carbide-derived carbon prepared by a sacrificial template method in high performance lithium sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17649-17654.	5.2	54
45	Transition metal loaded silicon carbide-derived carbons with enhanced catalytic properties. <i>Carbon</i> , 2012, 50, 1861-1870.	5.4	53
46	Experimental Evidence of Confined Methane Hydrate in Hydrophilic and Hydrophobic Model Carbons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24071-24079.	1.5	52
47	Nanoimprint lithography of nanoporous carbon materials for micro-supercapacitor architectures. <i>Nanoscale</i> , 2018, 10, 10109-10115.	2.8	51
48	Synthesis, characterization, and hydrogen storage capacities of hierarchical porous carbide derived carbon monolith. <i>Journal of Materials Chemistry</i> , 2012, 22, 23893.	6.7	50
49	Carbon dioxide activated carbide-derived carbon monoliths as high performance adsorbents. <i>Carbon</i> , 2013, 56, 139-145.	5.4	50
50	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. <i>ACS Nano</i> , 2017, 11, 1559-1571.	7.3	49
51	An Asymmetric Supercapacitor “Diode (CAPode) for Unidirectional Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13060-13065.	7.2	49
52	Mechanochemical Friedel “ Crafts Alkylation “ A Sustainable Pathway Towards Porous Organic Polymers. <i>Angewandte Chemie</i> , 2017, 129, 6963-6967.	1.6	47
53	Mechanochemical synthesis of N-doped porous carbon at room temperature. <i>Nanoscale</i> , 2019, 11, 4712-4718.	2.8	47
54	Ordered mesoporous carbide-derived carbons prepared by soft templating. <i>Carbon</i> , 2012, 50, 3987-3994.	5.4	46

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55	Rediscovering zeolite mechanochemistry – A pathway beyond current synthesis and modification boundaries. <i>Microporous and Mesoporous Materials</i> , 2014, 194, 106-114.	2.2	45
56	Trimodal hierarchical carbide-derived carbon monoliths from steam- and CO ₂ -activated wood templates for high rate lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24103-24111.	5.2	38
57	Hydrogen production from catalytic decomposition of methane over ordered mesoporous carbons (CMK-3) and carbide-derived carbon (DUT-19). <i>Carbon</i> , 2014, 67, 377-389.	5.4	36
58	Carbon onion/sulfur hybrid cathodes via inverse vulcanization for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 133-146.	2.5	36
59	Mechanochemical synthesis of porous carbon at room temperature with a highly ordered sp ² microstructure. <i>Carbon</i> , 2018, 139, 325-333.	5.4	36
60	Design of Hierarchically Porous Carbons with Interlinked Hydrophilic and Hydrophobic Surface and Their Capacitive Behavior. <i>Chemistry of Materials</i> , 2016, 28, 8715-8725.	3.2	35
61	Carbon onion-sulfur hybrid cathodes for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2017, 1, 84-94.	2.5	34
62	Tailored Mesoporous Carbon/Vanadium Pentoxide Hybrid Electrodes for High Power Pseudocapacitive Lithium and Sodium Intercalation. <i>Chemistry of Materials</i> , 2017, 29, 8653-8662.	3.2	34
63	Microporous novolac-derived carbon beads/sulfur hybrid cathode for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2017, 357, 198-208.	4.0	33
64	Electrolyte mobility in supercapacitor electrodes – Solid state NMR studies on hierarchical and narrow pore sized carbons. <i>Energy Storage Materials</i> , 2018, 12, 183-190.	9.5	33
65	The mechanochemical Scholl reaction as a versatile synthesis tool for the solvent-free generation of microporous polymers. <i>RSC Advances</i> , 2020, 10, 25509-25516.	1.7	33
66	Structural Characterization of Micro- and Mesoporous Carbon Materials Using In Situ High Pressure ¹²⁹ Xe NMR Spectroscopy. <i>Chemistry of Materials</i> , 2014, 26, 3280-3288.	3.2	31
67	Textural Characterization of Micro- and Mesoporous Carbons Using Combined Gas Adsorption and <i>n</i> -Nonane Preadsorption. <i>Langmuir</i> , 2013, 29, 8133-8139.	1.6	30
68	Nanocasting in ball mills – combining ultra-hydrophilicity and ordered mesoporosity in carbon materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 859-865.	5.2	29
69	Sustainable and rapid preparation of nanosized Fe/Ni-pentlandite particles by mechanochemistry. <i>Chemical Science</i> , 2020, 11, 12835-12842.	3.7	29
70	Comparing pore structure models of nanoporous carbons obtained from small angle X-ray scattering and gas adsorption. <i>Carbon</i> , 2019, 152, 416-423.	5.4	28
71	Influence of surface wettability on methane hydrate formation in hydrophilic and hydrophobic mesoporous silicas. <i>Chemical Engineering Journal</i> , 2021, 405, 126955.	6.6	28
72	Kroll-carbons based on silica and alumina templates as high-rate electrode materials in electrochemical double-layer capacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5131.	5.2	27

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73	Evolution of porosity in carbide-derived carbon aerogels. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18472-18479.	5.2	27
74	Mechanochemically-Assisted Synthesis of Polyimides. <i>ChemSusChem</i> , 2022, 15, e202101975.	3.6	25
75	Solvent-free synthesis of a porous thiophene polymer by mechanochemical oxidative polymerization. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21901-21905.	5.2	24
76	Mechanochemical synthesis of hyper-crosslinked polymers: influences on their pore structure and adsorption behaviour for organic vapors. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1154-1161.	1.3	24
77	Ordered Mesoporous Boron Carbide Based Materials via Precursor Nanocasting. <i>Chemistry of Materials</i> , 2010, 22, 4660-4668.	3.2	23
78	Thermogravimetric Analysis of Activated Carbons, Ordered Mesoporous Carbide-Derived Carbons, and Their Deactivation Kinetics of Catalytic Methane Decomposition. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1741-1753.	1.8	23
79	Emulsion soft templating of carbide-derived carbon nanospheres with controllable porosity for capacitive electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17983-17990.	5.2	23
80	Direkte Mechanokatalyse: Palladium als Mahlmateriale und Katalysator in der mechanochemischen Suzuki-Polymerisation. <i>Angewandte Chemie</i> , 2019, 131, 19118-19123.	1.6	23
81	Revealing the Impact of Hierarchical Pore Organization in Supercapacitor Electrodes by Coupling Ionic Dynamics at Micro- and Macroscales. <i>Advanced Energy Materials</i> , 2021, 11, 2100700.	10.2	23
82	Functionalised porous nanocomposites: a multidisciplinary approach to investigate designed structures for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4904.	5.2	22
83	Carbon nano-composites for lithium-sulfur batteries. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 4, 64-71.	3.2	22
84	Titanium Carbide and Carbide-Derived Carbon Composite Nanofibers by Electrospinning of Ti-Resin Precursor. <i>Chemie-Ingenieur-Technik</i> , 2013, 85, 1742-1748.	0.4	21
85	Ionic liquid - Electrode materials interactions studied by NMR spectroscopy, cyclic voltammetry, and impedance spectroscopy. <i>Energy Storage Materials</i> , 2019, 19, 432-438.	9.5	21
86	Mechanochemical Cyclodehydrogenation with Elemental Copper: An Alternative Pathway toward Nanographenes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7569-7573.	3.2	21
87	Preparation of cubic ordered mesoporous silicon carbide monoliths by pressure assisted preceramic polymer nanocasting. <i>Microporous and Mesoporous Materials</i> , 2013, 168, 142-147.	2.2	20
88	ZnPd/ZnO Aerogels as Potential Catalytic Materials. <i>Advanced Functional Materials</i> , 2016, 26, 1014-1020.	7.8	20
89	Towards a continuous adsorption process for the enrichment of ACE-inhibiting peptides from food protein hydrolysates. <i>Carbon</i> , 2016, 107, 116-123.	5.4	20
90	Mechanochemistry-assisted synthesis of hierarchical porous carbons applied as supercapacitors. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1332-1341.	1.3	20

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91	Upcycling of polyurethane waste by mechanochemistry: synthesis of N-doped porous carbon materials for supercapacitor applications. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1618-1627.	1.5	20
92	Salt templated synthesis of hierarchical covalent triazine frameworks. <i>Microporous and Mesoporous Materials</i> , 2017, 239, 190-194.	2.2	19
93	The Direct Mechanocatalytic Suzuki–Miyaura Reaction of Small Organic Molecules. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	18
94	Interactions Between Electrolytes and Carbon-Based Materials—NMR Studies on Electrical Double-Layer Capacitors, Lithium-Ion Batteries, and Fuel Cells. <i>Annual Reports on NMR Spectroscopy</i> , 2016, , 237-318.	0.7	17
95	CeO ₂ /Pt Catalyst Nanoparticle Containing Carbide-Derived Carbon Composites by a New In situ Functionalization Strategy. <i>Chemistry of Materials</i> , 2011, 23, 57-66.	3.2	16
96	Structuring zeolite bodies for enhanced heat-transfer properties. <i>Microporous and Mesoporous Materials</i> , 2015, 208, 196-202.	2.2	16
97	The mechanochemical Friedel–Crafts polymerization as a solvent-free cross-linking approach toward microporous polymers. <i>Journal of Polymer Science</i> , 2022, 60, 62-71.	2.0	16
98	The Formation and Morphology of Nanoparticle Supracrystals. <i>Advanced Functional Materials</i> , 2016, 26, 4890-4895.	7.8	15
99	Tailoring the porosity of a mesoporous carbon by a solvent-free mechanochemical approach. <i>Carbon</i> , 2019, 147, 43-50.	5.4	15
100	Titanium Niobium Oxide Ti ₂ Nb ₁₀ O ₂₉ /Carbon Hybrid Electrodes Derived by Mechanochemically Synthesized Carbide for High-Performance Lithium-Ion Batteries. <i>ChemSusChem</i> , 2021, 14, 398-407.	3.6	15
101	Bronze Age of Direct Mechanocatalysis: How Alloyed Milling Materials Advance Coupling in Ball Mills. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100011.	2.8	15
102	Beyond the Scholl reaction – one-step planarization and edge chlorination of nanographenes by mechanochemistry. <i>RSC Advances</i> , 2021, 11, 38026-38032.	1.7	15
103	On the origin of mesopore collapse in functionalized porous carbons. <i>Carbon</i> , 2019, 149, 743-749.	5.4	14
104	In-situ Generation of Electrolyte inside Pyridine-Based Covalent Triazine Frameworks for Direct Supercapacitor Integration. <i>ChemSusChem</i> , 2020, 13, 3192-3198.	3.6	14
105	A hard-templating route towards ordered mesoporous tungsten carbide and carbide-derived carbons. <i>Microporous and Mesoporous Materials</i> , 2014, 186, 163-167.	2.2	13
106	Extraction of ACE-inhibiting dipeptides from protein hydrolysates using porous carbon materials. <i>Carbon</i> , 2014, 77, 191-198.	5.4	13
107	Enhancing ACE-inhibition of food protein hydrolysates by selective adsorption using porous carbon materials. <i>Carbon</i> , 2015, 87, 309-316.	5.4	13
108	Mechanochemically Assisted Synthesis of Hexaazatriphenylenehexacarbonitrile. <i>Journal of Organic Chemistry</i> , 2021, 86, 14011-14015.	1.7	13

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109	Complete and partial oxidation of methane on ceria/platinum silicon carbide nanocomposites. <i>Catalysis Science and Technology</i> , 2012, 2, 139-146.	2.1	11
110	A comprehensive approach for the characterization of porous polymers using ¹³ C and ¹⁵ N dynamic nuclear polarization NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23307-23314.	1.3	11
111	Solid-state transformation of aqueous to organic electrolyte – Enhancing the operating voltage window of ^{in situ} electrolyte™ supercapacitors. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2438-2447.	2.5	11
112	Mechanochemical Functionalization of Carbon Black at Room Temperature. <i>Journal of Carbon Research</i> , 2018, 4, 14.	1.4	8
113	Ceria/silicon carbide core-shell materials prepared by miniemulsion technique. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 638-644.	1.5	7
114	The –In Situ Electrolyte–Concept: Using Activation Chemicals as Electrolytes for Carbon-Based Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800087.	2.7	7
115	Tailoring the Adsorption of ACE-Inhibiting Peptides by Nitrogen Functionalization of Porous Carbons. <i>Langmuir</i> , 2019, 35, 9721-9731.	1.6	6
116	An Asymmetric Supercapacitor –Diode (CAPode) for Unidirectional Energy Storage. <i>Angewandte Chemie</i> , 2019, 131, 13194-13199.	1.6	6
117	Die direkte mechanokatalytische Suzuki–Miyaura–Kupplung kleiner organischer Moleküle. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
118	Scale-Up of Solvent-Free, Mechanochemical Precursor Synthesis for Nanoporous Carbon Materials via Extrusion. <i>ChemSusChem</i> , 2022, 15, .	3.6	6
119	Solvent-free hierarchization of zeolites by carbochlorination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 221-229.	5.2	5
120	Diffusion: Revising the Concept of Pore Hierarchy for Ionic Transport in Carbon Materials for Supercapacitors (Adv. Energy Mater. 24/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870108.	10.2	5
121	Non-porous organic crystals and their interaction with guest molecules from the gas phase. <i>Adsorption</i> , 2020, 26, 1323-1333.	1.4	3
122	Reaktoren für spezielle technisch-chemische Prozesse: Tribochemische Reaktoren. <i>Springer Reference Naturwissenschaften</i> , 2018, , 1-28.	0.2	1
123	Frontispiece: Direct Mechano catalysis: Using Milling Balls as Catalysts. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	0
124	Supercapacitors: Revealing the Impact of Hierarchical Pore Organization in Supercapacitor Electrodes by Coupling Ionic Dynamics at Micro- and Macroscales (Adv. Energy Mater. 24/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170090.	10.2	0
125	Reaktoren für spezielle technisch-chemische Prozesse: Tribochemische Reaktoren. <i>Springer Reference Naturwissenschaften</i> , 2020, , 1155-1182.	0.2	0