

# Philippe Miele

## List of Publications by Year in descending order

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317  
papers

14,107  
citations

17440

63  
h-index

36028

97  
g-index

337  
all docs

337  
docs citations

337  
times ranked

13237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of Free-Standing, Electrochemically Active, and Biocompatible Graphene Oxide~Polyaniline and Graphene~Polyaniline Hybrid Papers. ACS Applied Materials & Interfaces, 2010, 2, 2521-2529.	8.0	472
2	Role of Sulfur Vacancies and Undercoordinated Mo Regions in MoS <sub>2</sub> Nanosheets toward the Evolution of Hydrogen. ACS Nano, 2019, 13, 6824-6834.	14.6	402
3	Sodium borohydride versus ammonia borane, in hydrogen storage and direct fuel cell applications. Energy and Environmental Science, 2009, 2, 627.	30.8	343
4	Current Trends in Pickering Emulsions: Particle Morphology and Applications. Engineering, 2020, 6, 468-482.	6.7	266
5	Sodium Borohydride Hydrolysis as Hydrogen Generator: Issues, State of the Art and Applicability Upstream from a Fuel Cell. Fuel Cells, 2010, 10, 335-350.	2.4	252
6	Recent Progress on Titanium Dioxide Nanomaterials for Photocatalytic Applications. ChemSusChem, 2018, 11, 3023-3047.	6.8	243
7	Ten-year efforts and a no-go recommendation for sodium borohydride for on-board automotive hydrogen storage. International Journal of Hydrogen Energy, 2009, 34, 2638-2645.	7.1	211
8	Enhanced sieving from exfoliated MoS <sub>2</sub> membranes via covalent functionalization. Nature Materials, 2019, 18, 1112-1117.	27.5	196
9	Cobalt in NaBH <sub>4</sub> hydrolysis. Physical Chemistry Chemical Physics, 2010, 12, 14651.	2.8	195
10	A Raman Spectroscopy Study of Individual SiC Nanowires. Advanced Functional Materials, 2007, 17, 939-943.	14.9	168
11	Hydrolysis of Ammonia Borane as a Hydrogen Source: Fundamental Issues and Potential Solutions Towards Implementation. ChemSusChem, 2011, 4, 1731-1739.	6.8	158
12	Efficient nanoparticles removal and bactericidal action of electrospun nanofibers membranes for air filtration. Materials Science and Engineering C, 2019, 102, 718-729.	7.3	151
13	Bimetallic RuCo and RuCu catalysts supported on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . A comparative study of their activity in hydrolysis of ammonia-borane. International Journal of Hydrogen Energy, 2011, 36, 7051-7065.	7.1	139
14	Synthesis of Boron Nitride with Ordered Mesostructure. Advanced Materials, 2005, 17, 571-574.	21.0	136
15	Design of Boron Nitride/Gelatin Electrospun Nanofibers for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2017, 9, 33695-33706.	8.0	135
16	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. Chemistry of Materials, 2018, 30, 7368-7390.	6.7	133
17	Cobalt-based catalysts for the hydrolysis of NaBH <sub>4</sub> and NH <sub>3</sub> BH <sub>3</sub> . Physical Chemistry Chemical Physics, 2014, 16, 6872.	2.8	132
18	Boron-based hydrides for chemical hydrogen storage. International Journal of Energy Research, 2013, 37, 825-842.	4.5	129

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19	Hydrazine borane: synthesis, characterization, and application prospects in chemical hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1768-1777.	2.8	127
20	Boron-modified polysilazane as a novel single-source precursor for SiBCN ceramic fibers: synthesis, melt-spinning, curing and ceramic conversion. <i>Journal of Materials Chemistry</i> , 2005, 15, 289.	6.7	125
21	High-extent dehydrogenation of hydrazine borane N <sub>2</sub> H <sub>4</sub> BH <sub>3</sub> by hydrolysis of BH <sub>3</sub> and decomposition of N <sub>2</sub> H <sub>4</sub> . <i>Energy and Environmental Science</i> , 2011, 4, 3355.	30.8	123
22	Enhanced Visible-Light Photocatalytic Performance of Electrospun rGO/TiO <sub>2</sub> Composite Nanofibers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 261-269.	3.1	119
23	Highly efficient hydrogen sensors based on Pd nanoparticles supported on boron nitride coated ZnO nanowires. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8107-8116.	10.3	114
24	Tuning Optical Properties of Al <sub>2</sub> O <sub>3</sub> /ZnO Nanolaminates Synthesized by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3811-3819.	3.1	111
25	Chemical hydrogen storage: "material" gravimetric capacity versus "system" gravimetric capacity. <i>Energy and Environmental Science</i> , 2011, 4, 3334.	30.8	105
26	Field emission from ordered carbon nanotube-ZnO heterojunction arrays. <i>Carbon</i> , 2008, 46, 753-758.	10.3	97
27	Adsorption and photocatalytic oxidation of ibuprofen using nanocomposites of TiO <sub>2</sub> nanofibers combined with BN nanosheets: Degradation products and mechanisms. <i>Chemosphere</i> , 2019, 220, 921-929.	8.2	97
28	Hydrogen release through catalyzed methanolysis of solid sodium borohydride. <i>Energy and Environmental Science</i> , 2010, 3, 1796.	30.8	96
29	Highly crystalline MOF-based materials grown on electrospun nanofibers. <i>Nanoscale</i> , 2015, 7, 5794-5802.	5.6	95
30	ZnO 1D nanostructures designed by combining atomic layer deposition and electrospinning for UV sensor applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20650-20658.	10.3	93
31	Evolution of microstructure and related optical properties of ZnO grown by atomic layer deposition. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 690-698.	2.8	92
32	An innovative approach for the preparation of confined ZIF-8 membranes by conversion of ZnO ALD layers. <i>Journal of Membrane Science</i> , 2015, 475, 39-46.	8.2	92
33	Micro-, Mesoporous Boron Nitride-Based Materials Templated from Zeolites. <i>Chemistry of Materials</i> , 2012, 24, 88-96.	6.7	90
34	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2021, 118, 111525.	7.3	90
35	Reaction mechanisms of the hydrolysis of sodium borohydride: A discussion focusing on cobalt-based catalysts. <i>Comptes Rendus Chimie</i> , 2014, 17, 707-716.	0.5	89
36	Spontaneous hydrolysis of sodium borohydride in harsh conditions. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 224-233.	7.1	88

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37	Mesoporous ZnFe <sub>2</sub> O <sub>4</sub> @TiO <sub>2</sub> Nanofibers Prepared by Electrospinning Coupled to PECVD as Highly Performing Photocatalytic Materials. Journal of Physical Chemistry C, 2017, 121, 24669-24677.	3.1	88
38	Langmuir-Hinshelwood kinetic model to capture the cobalt nanoparticles-catalyzed hydrolysis of sodium borohydride over a wide temperature range. Catalysis Today, 2011, 170, 13-19.	4.4	86
39	Facile synthesis by polyol method of a ruthenium catalyst supported on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> for hydrolytic dehydrogenation of ammonia borane. Catalysis Today, 2011, 170, 85-92.	4.4	86
40	Atomic layer deposition for biosensing applications. Biosensors and Bioelectronics, 2018, 122, 147-159.	10.1	86
41	Comparison between SBA-15 silica and CMK-3 carbon nanocasting for mesoporous boron nitride synthesis. Journal of Materials Chemistry, 2005, 15, 1917.	6.7	85
42	Deactivation and reactivation of cobalt in hydrolysis of sodium borohydride. International Journal of Hydrogen Energy, 2011, 36, 13669-13675.	7.1	85
43	Boron Nitride Nanoporous Membranes with High Surface Charge by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 16669-16678.	8.0	83
44	A multifactor study of catalyzed hydrolysis of solid NaBH <sub>4</sub> on cobalt nanoparticles: Thermodynamics and kinetics. International Journal of Hydrogen Energy, 2009, 34, 938-951.	7.1	81
45	Boron Nitride Fibers Prepared from Symmetric and Asymmetric Alkylaminoborazines. Advanced Functional Materials, 2002, 12, 228.	14.9	80
46	Very Long SiC-Based Coaxial Nanocables with Tunable Chemical Composition. Advanced Functional Materials, 2007, 17, 3251-3257.	14.9	80
47	High photodegradation and antibacterial activity of BN-Ag/TiO <sub>2</sub> composite nanofibers under visible light. New Journal of Chemistry, 2018, 42, 1250-1259.	2.8	80
48	Composites Based on Nanoparticle and Pan Electrospun Nanofiber Membranes for Air Filtration and Bacterial Removal. Nanomaterials, 2019, 9, 1740.	4.1	80
49	Enhanced photocatalytic performance of novel electrospun BN/TiO <sub>2</sub> composite nanofibers. New Journal of Chemistry, 2017, 41, 81-89.	2.8	79
50	Polymer-Derived Boron Nitride: A Review on the Chemistry, Shaping and Ceramic Conversion of Borazine Derivatives. Materials, 2014, 7, 7436-7459.	2.9	78
51	Acetic acid, a relatively green single-use catalyst for hydrogen generation from sodium borohydride. International Journal of Hydrogen Energy, 2009, 34, 7231-7238.	7.1	77
52	Hydrogen release by thermolysis of ammonia borane NH <sub>3</sub> BH <sub>3</sub> and then hydrolysis of its by-product [BNH <sub>x</sub> ]. Journal of Power Sources, 2011, 196, 279-286.	7.8	76
53	Novel monolith-type boron nitride hierarchical foams obtained through integrative chemistry. Journal of Materials Chemistry, 2011, 21, 14025.	6.7	75
54	Synthesis of Boron Nitride Nanotubes by a Template-Assisted Polymer Thermolysis Process. Journal of Physical Chemistry C, 2007, 111, 13378-13384.	3.1	74

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55	Preparation of Polyborazylene-Derived Bulk Boron Nitride with Tunable Properties by Warm-Pressing and Pressureless Pyrolysis. <i>Chemistry of Materials</i> , 2010, 22, 2010-2019.	6.7	73
56	BN/GdxTi(1-x)O(4-x)/2 nanofibers for enhanced photocatalytic hydrogen production under visible light. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 76-86.	20.2	73
57	Ionic transport through sub-10%nm diameter hydrophobic high-aspect ratio nanopores: experiment, theory and simulation. <i>Scientific Reports</i> , 2015, 5, 10135.	3.3	72
58	Exfoliation of Hexagonal Boron Nitride (h-BN) in Liquid Phase by Ion Intercalation. <i>Nanomaterials</i> , 2018, 8, 716.	4.1	72
59	Recent Developments in Polymer-Derived Ceramic Fibers (PDCFs): Preparation, Properties and Applications – A Review. <i>Soft Materials</i> , 2007, 4, 249-286.	1.7	71
60	Cobalt (II) salts, performing materials for generating hydrogen from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2631-2637.	7.1	70
61	A new class of boron nitride fibers with tunable properties by combining an electrospinning process and the polymer-derived ceramics route. <i>Nanoscale</i> , 2010, 2, 215-217.	5.6	69
62	Enhanced electroactive properties of polyurethane films loaded with carbon-coated SiC nanowires. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 055503.	2.8	68
63	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. <i>Nanotechnology</i> , 2015, 26, 105501.	2.6	67
64	Preparation of high-temperature stable SiBCN fibers from tailored single source polyborosilazanes. <i>Journal of the European Ceramic Society</i> , 2005, 25, 251-256.	5.7	64
65	Slow translocation of polynucleotides and their discrimination by $\beta$ -hemolysin inside a single track-etched nanopore designed by atomic layer deposition. <i>Nanoscale</i> , 2013, 5, 9582.	5.6	64
66	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6815-6821.	5.5	63
67	Alkylaminoborazine-based precursors for the preparation of boron nitride fibers by the polymer-derived ceramics (PDCs) route. <i>Journal of the European Ceramic Society</i> , 2005, 25, 111-121.	5.7	62
68	In Situ Controlled Growth of Titanium Nitride in Amorphous Silicon Nitride: A General Route Toward Bulk Nitride Nanocomposites with Very High Hardness. <i>Advanced Materials</i> , 2014, 26, 6548-6553.	21.0	61
69	Graphene-like BN/gelatin nanobiocomposites for gas barrier applications. <i>Nanoscale</i> , 2015, 7, 613-618.	5.6	61
70	Hydrolysis of solid ammonia borane. <i>Journal of Power Sources</i> , 2010, 195, 4030-4035.	7.8	60
71	Improved electrochemical conversion of CO <sub>2</sub> to multicarbon products by using molecular doping. <i>Nature Communications</i> , 2021, 12, 7210.	12.8	60
72	Nanostructured and architected boron nitride from boron, nitrogen and hydrogen-containing molecular and polymeric precursors. <i>Materials Today</i> , 2014, 17, 443-450.	14.2	59

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73	Room-temperature hydrogen release from activated carbon-confined ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13437-13445.	7.1	57
74	Organosilicon polymer-derived mesoporous 3D silicon carbide, carbonitride and nitride structures as platinum supports for hydrogen generation by hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15477-15488.	7.1	57
75	Ordered Mesoporous Silicoboron Carbonitride Materials via Pre-ceramic Polymer Nanocasting. <i>Chemistry of Materials</i> , 2008, 20, 6325-6334.	6.7	56
76	Core-shell Au@(TiO <sub>2</sub> , SiO <sub>2</sub> ) nanoparticles with tunable morphology. <i>Chemical Communications</i> , 2010, 46, 4544.	4.1	54
77	Silicon carbide-based membranes with high soot particle filtration efficiency, durability and catalytic activity for CO/HC oxidation and soot combustion. <i>Journal of Membrane Science</i> , 2016, 501, 79-92.	8.2	54
78	Overview of the relative greenness of the main hydrogen production processes. <i>Journal of Cleaner Production</i> , 2013, 52, 1-10.	9.3	53
79	Kinetic Modeling of the Polymer-Derived Ceramics Route: Investigation of the Thermal Decomposition Kinetics of Poly[B-(methylamino)borazine] Precursors into Boron Nitride. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9048-9060.	2.6	51
80	Nickel-based bimetallic nanocatalysts in high-extent dehydrogenation of hydrazine borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9722-9729.	7.1	51
81	Core-shell gold J-aggregate nanoparticles for highly efficient strong coupling applications. <i>Applied Physics Letters</i> , 2010, 96, 253107.	3.3	50
82	Overview of Protein-Based Biopolymers for Biomedical Application. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900126.	2.2	50
83	Au-covered hollow urchin-like ZnO nanostructures for surface-enhanced Raman scattering sensing. <i>Journal of Materials Chemistry C</i> , 2019, 7, 15066-15073.	5.5	50
84	High-performance boron nitride fibers obtained from asymmetric alkylaminoborazine. <i>Journal of Materials Chemistry</i> , 2003, 13, 274.	6.7	49
85	Sodium tetrahydroborate as energy/hydrogen carrier, its history. <i>Comptes Rendus Chimie</i> , 2009, 12, 943-950.	0.5	49
86	Cobalt, a reactive metal in releasing hydrogen from sodium borohydride by hydrolysis: A short review and a research perspective. <i>Science China Chemistry</i> , 2010, 53, 1870-1879.	8.2	49
87	Study of the intermediate pyrolysis steps and mechanism identification of polymer-derived SiBCN ceramics. <i>Journal of Materials Chemistry</i> , 2012, 22, 17923.	6.7	49
88	Hollow core@mesoporous shell boron nitride nanopolyhedron-confined ammonia borane: a pure B-N-H composite for chemical hydrogen storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7717.	10.3	49
89	Preparation of polymer-derived Si-B-C-N monoliths by spark plasma sintering technique. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1361-1374.	5.7	49
90	Novel biocompatible electrospun gelatin fiber mats with antibiotic drug delivery properties. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1134-1141.	5.8	49

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91	Highly efficient acid-treated cobalt catalyst for hydrogen generation from NaBH <sub>4</sub> hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 4780-4787.	7.1	48
92	Fabrication of silicon pyramid/nanowire binary structure with superhydrophobicity. <i>Applied Surface Science</i> , 2009, 255, 7147-7152.	6.1	48
93	Design of Highly Dense Boron Nitride by the Combination of Spray-Pyrolysis of Borazine and Additive-Free Sintering of Derived Ultrafine Powders. <i>Chemistry of Materials</i> , 2009, 21, 2920-2929.	6.7	48
94	Nickel- and platinum-containing core@shell catalysts for hydrogen generation of aqueous hydrazine borane. <i>Journal of Power Sources</i> , 2014, 260, 77-81.	7.8	48
95	Photoluminescence: A very sensitive tool to detect the presence of anatase in rutile phase electrospun TiO <sub>2</sub> nanofibers. <i>Superlattices and Microstructures</i> , 2015, 77, 18-24.	3.1	48
96	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. <i>Chemical Engineering Journal</i> , 2020, 389, 124326.	12.7	48
97	Thermal stability of mesoporous boron nitride templated with a cationic surfactant. <i>Journal of the European Ceramic Society</i> , 2007, 27, 313-317.	5.7	47
98	Polymer-derived ceramics route toward SiCN and SiBCN fibers: from chemistry of polycarbosilazanes to the design and characterization of ceramic fibers. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 967-980.	1.1	47
99	Synthesis of novel ZnO/ZnAl <sub>2</sub> O <sub>4</sub> multi co-centric nanotubes and their long-term stability in photocatalytic application. <i>RSC Advances</i> , 2016, 6, 103692-103699.	3.6	47
100	Yttrium tetramethylheptanedionates: syntheses, crystal and molecular structures and thermal behaviours of Y(thd) <sub>3</sub> ·H <sub>2</sub> O and Y(thd) <sub>3</sub> (thd=tBuC(O)CHC(O)tBu). <i>Inorganica Chimica Acta</i> , 1993, 209, 47-53.	2.4	46
101	Structural and thermal properties of boron nitride nanoparticles. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1867-1871.	5.7	46
102	Development of novel h-BNNS/PVA porous membranes via Pickering emulsion templating. <i>Green Chemistry</i> , 2018, 20, 4319-4329.	9.0	46
103	Nanostructured boron nitride-based materials: synthesis and applications. <i>Materials Today Advances</i> , 2020, 8, 100107.	5.2	46
104	Controlling the chemistry, morphology and structure of boron nitride-based ceramic fibers through a comprehensive mechanistic study of the reactivity of spinnable polymers with ammonia. <i>Journal of Materials Chemistry</i> , 2006, 16, 3126.	6.7	45
105	Enhanced hydrogen release by catalyzed hydrolysis of sodium borohydride-ammonia borane mixtures: a solution-state <sup>11</sup> B NMR study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3809.	2.8	45
106	Chemistry, structure and processability of boron-modified polysilazanes as tailored precursors of ceramic fibers. <i>Journal of Materials Chemistry</i> , 2012, 22, 7739.	6.7	45
107	Novel and Facile Route for the Synthesis of Tunable Boron Nitride Nanotubes Combining Atomic Layer Deposition and Annealing Processes for Water Purification. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800056.	3.7	45
108	High-yield synthesis of hollow boron nitride nano-polyhedrons. <i>Journal of Materials Chemistry</i> , 2011, 21, 8694.	6.7	44



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109	Transition metal-catalyzed dehydrogenation of hydrazine borane N <sub>2</sub> H <sub>4</sub> BH <sub>3</sub> via the hydrolysis of BH <sub>3</sub> and the decomposition of N <sub>2</sub> H <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10758-10767.	7.1	44
110	Facile Synthesis and High Rate Capability of Silicon Carbonitride/Boron Nitride Composite with a Sheet-Like Morphology. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2783-2791.	3.1	44
111	Pyrolysis of poly[2,4,6-tri(methylamino)borazine] and its conversion into BN fibers. <i>Journal of Organometallic Chemistry</i> , 2002, 657, 91-97.	1.8	43
112	Aluminum chloride for accelerating hydrogen generation from sodium borohydride. <i>Journal of Power Sources</i> , 2009, 192, 310-315.	7.8	43
113	Ex situ characterization of N <sub>2</sub> H <sub>4</sub> -, NaBH <sub>4</sub> - and NH <sub>3</sub> BH <sub>3</sub> -reduced cobalt catalysts used in NaBH <sub>4</sub> hydrolysis. <i>Catalysis Today</i> , 2011, 170, 3-12.	4.4	43
114	Direct synthesis of $\beta$ -SiC and h-BN coated $\beta$ -SiC nanowires. <i>Solid State Communications</i> , 2002, 124, 157-161.	1.9	42
115	Direct synthesis of amorphous silicon dioxide nanowires and helical self-assembled nanostructures derived therefrom. <i>Journal of Materials Chemistry</i> , 2003, 13, 3058.	6.7	42
116	Fracture Mechanics and Oxygen Gas Barrier Properties of Al <sub>2</sub> O <sub>3</sub> /ZnO Nanolaminates on PET Deposited by Atomic Layer Deposition. <i>Nanomaterials</i> , 2019, 9, 88.	4.1	42
117	Natural payload delivery of the doxorubicin anticancer drug from boron nitride oxide nanosheets. <i>Applied Surface Science</i> , 2019, 475, 666-675.	6.1	42
118	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering. <i>ACS Applied Bio Materials</i> , 2020, 3, 1865-1874.	4.6	42
119	Synthesis and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles confined within mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2010, 135, 137-142.	4.4	41
120	Borates in hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7888-7895.	7.1	41
121	Monodisperse platinum nanoparticles supported on highly ordered mesoporous silicon nitride nanoblocks: superior catalytic activity for hydrogen generation from sodium borohydride. <i>RSC Advances</i> , 2015, 5, 58943-58951.	3.6	41
122	Boron nitride ceramics from molecular precursors: synthesis, properties and applications. <i>Dalton Transactions</i> , 2016, 45, 861-873.	3.3	41
123	Enhanced electrocatalytic performance triggered by atomically bridged boron nitride between palladium nanoparticles and carbon fibers in gas-diffusion electrodes. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117917.	20.2	41
124	ZnO nanotubes by template-assisted sol-gel route. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	40
125	Preparation, Characterization, and Surface Modification of Periodic Mesoporous Silicon-Aluminum-Carbon-Nitrogen Frameworks. <i>Chemistry of Materials</i> , 2013, 25, 3957-3970.	6.7	40
126	ALD thin ZnO layer as an active medium in a fiber-optic Fabry-Perot interferometer. <i>Sensors and Actuators A: Physical</i> , 2015, 221, 88-94.	4.1	40



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127	Structural and Mechanical Behavior of Boron Nitride Fibers Derived from Poly[(Methylamino)Borazine] Precursors: Optimization of the Curing and Pyrolysis Procedures. <i>Journal of the American Ceramic Society</i> , 2006, 89, 42-49.	3.8	39
128	Design of a Series of Preceramic B-Tri(methylamino)borazine-Based Polymers as Fiber Precursors: Architecture, Thermal Behavior, and Melt-Spinnability. <i>Macromolecules</i> , 2007, 40, 1018-1027.	4.8	39
129	Ordered mesoporous silicoboron carbonitride ceramics from boron-modified polysilazanes: Polymer synthesis, processing and properties. <i>Microporous and Mesoporous Materials</i> , 2011, 140, 40-50.	4.4	39
130	Enhanced Ionic Transport Mechanism by Gramicidin A Confined Inside Nanopores Tuned by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15306-15315.	3.1	39
131	Ordered mesoporous polymer-derived ceramics and their processing into hierarchically porous boron nitride and silicoboron carbonitride monoliths. <i>New Journal of Chemistry</i> , 2014, 38, 1923-1931.	2.8	39
132	Cyclic Dehydrogenation/(Re)Hydrogenation with Hydrogen Storage Materials: An Overview. <i>Energy Technology</i> , 2015, 3, 100-117.	3.8	39
133	Nanocomposites through the Chemistry of Single-Source Precursors: Understanding the Role of Chemistry behind the Design of Monolith-Type Nanostructured Titanium Nitride/Silicon Nitride. <i>Chemistry - A European Journal</i> , 2017, 23, 832-845.	3.3	39
134	Porous boron nitride supports obtained from molecular precursors. <i>Journal of Organometallic Chemistry</i> , 2002, 657, 98-106.	1.8	38
135	Preparation of BN Microtubes/Nanotubes with a Unique Chemical Process. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18325-18330.	3.1	38
136	A highly efficient gold/electrospun PAN fiber material for improved laccase biocathodes for biofuel cell applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2794.	10.3	38
137	Highly textured boron/nitrogen co-doped TiO <sub>2</sub> with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. <i>Applied Surface Science</i> , 2020, 505, 144419.	6.1	38
138	Borylborazines as new precursors for boron nitride fibres. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2809-2814.	1.8	37
139	Silicon-boron-carbon-nitrogen monoliths with high, interconnected and hierarchical porosity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10991.	10.3	37
140	Sodium Hydrazinidoborane: A Chemical Hydrogen Storage Material. <i>ChemSusChem</i> , 2013, 6, 667-673.	6.8	37
141	Ammonia borane H <sub>3</sub> NBH <sub>3</sub> for solid-state chemical hydrogen storage: Different samples with different thermal behaviors. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15462-15470.	7.1	37
142	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9434-9441.	3.1	37
143	More reactive cobalt chloride in the hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9444-9449.	7.1	36
144	Ammonia borane thermolytic decomposition in the presence of metal (II) chlorides. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6749-6755.	7.1	36

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145	Mechanical properties of boron nitride thin films prepared by atomic layer deposition. CrystEngComm, 2017, 19, 6089-6094.	2.6	36
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