Philippe Miele

List of Publications by Year
in descending order

317	14,107	17440 63	36028 97
papers	citations	h-index	g-index

337	337	337	13237
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Determination of the formulation and curing conditions of thermosetting epoxy resins for optimizing their properties and future use in gelcasting process. Journal of Applied Polymer Science, 2022, 139, .	2.6	1
2	Design and Manufacturing of Si-Based Non-Oxide Cellular Ceramic Structures through Indirect 3D Printing. Materials, 2022, 15, 471.	2.9	12
3	Superior efficiency of BN/Ce2O3/TiO2 nanofibers for photocatalytic hydrogen generation reactions. Applied Surface Science, 2022, 594, 153438.	6.1	18
4	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. Materials Science and Engineering C, 2021, 118, 111525.	7.3	90
5	Sacrificial mold-assisted 3D printing of stable biocompatible gelatin scaffolds. Bioprinting, 2021, 22, e00140.	5.8	17
6	Improved electrochemical conversion of CO2 to multicarbon products by using molecular doping. Nature Communications, 2021, 12, 7210.	12.8	60
7	Highly textured boron/nitrogen co-doped TiO2 with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. Applied Surface Science, 2020, 505, 144419.	6.1	38
8	Enhancing photocatalytic performance and solar absorption by schottky nanodiodes heterojunctions in mechanically resilient palladium coated TiO2/Si nanopillars by atomic layer deposition. Chemical Engineering Journal, 2020, 392, 123702.	12.7	32
9	Nanostructured boron nitrideâ€“based materials: synthesis and applications. Materials Today Advances, 2020, 8, 100107.	5.2	46
10	Porous Gelatin Membranes Obtained from Pickering Emulsions Stabilized with h-BNNS: Application for Polyelectrolyte-Enhanced Ultrafiltration. Membranes, 2020, 10, 144.	3.0	7
11	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. Chemical Engineering Journal, 2020, 389, 124326.	12.7	48
12	Biomimetic electro-oxidation of alkyl sulfides from exfoliated molybdenum disulfide nanosheets. Journal of Materials Chemistry A, 2020, 8, 25053-25060.	10.3	6
13	Investigation of polymer-derived Siâ€“(B)â€“Câ€“N ceramic/reduced graphene oxide composite systems as active catalysts towards the hydrogen evolution reaction. Scientific Reports, 2020, 10, 22003.	3.3	24
14	Enhancement of Podocyte Attachment on Polyacrylamide Hydrogels with Gelatin-Based Polymers. ACS Applied Bio Materials, 2020, 3, 7531-7539.	4.6	8
15	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering. ACS Applied Bio Materials, 2020, 3, 1865-1874.	4.6	42
16	Current Trends in Pickering Emulsions: Particle Morphology and Applications. Engineering, 2020, 6, 468-482.	6.7	266
17	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. Journal of Physical Chemistry C, 2020, 124, 9434-9441.	3.1	37
18	Nanofibrous Scaffolds for Tissue Engineering Application. , 2019, , 665-691.		0

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19	Enhanced electrocatalytic performance triggered by atomically bridged boron nitride between palladium nanoparticles and carbon fibers in gas-diffusion electrodes. Applied Catalysis B: Environmental, 2019, 257, 117917.	20.2	41
20	On the Use of MOFs and ALD Layers as Nanomembranes for the Enhancement of Gas Sensors Selectivity. Nanomaterials, 2019, 9, 1552.	4.1	11
21	Enhanced sieving from exfoliated MoS2 membranes via covalent functionalization. Nature Materials, 2019, 18, 1112-1117.	27.5	196
22	Open-celled silicon carbide foams with high porosity from boron-modified polycarbosilanes. Journal of the European Ceramic Society, 2019, 39, 5114-5122.	5.7	31
23	Overview of Proteinâ€Based Biopolymers for Biomedical Application. Macromolecular Chemistry and Physics, 2019, 220, 1900126.	2.2	50
24	Role of Sulfur Vacancies and Undercoordinated Mo Regions in MoS₂ Nanosheets toward the Evolution of Hydrogen. ACS Nano, 2019, 13, 6824-6834.	14.6	402
25	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
26	BN/GdxTi(1-x)O(4-x)/2 nanofibers for enhanced photocatalytic hydrogen production under visible light. Applied Catalysis B: Environmental, 2019, 251, 76-86.	20.2	73
27	Highly efficient hydrogen sensors based on Pd nanoparticles supported on boron nitride coated ZnO nanowires. Journal of Materials Chemistry A, 2019, 7, 8107-8116.	10.3	114
28	Fracture Mechanics and Oxygen Gas Barrier Properties of Al2O3/ZnO Nanolaminates on PET Deposited by Atomic Layer Deposition. Nanomaterials, 2019, 9, 88.	4.1	42
29	Fabrication of porous boron nitride by using polyborazylene as precursor, polymethylmeth-acrylate as reaction agent. IOP Conference Series: Materials Science and Engineering, 2019, 612, 022062.	0.6	0
30	Enhanced visible light photocatalysis by TiO2â€“BN enabled electrospinning of nanofibers for pharmaceutical degradation and wastewater treatment. Photochemical and Photobiological Sciences, 2019, 18, 2921-2930.	2.9	20
31	Au-covered hollow urchin-like ZnO nanostructures for surface-enhanced Raman scattering sensing. Journal of Materials Chemistry C, 2019, 7, 15066-15073.	5.5	50
32	Composites Based on Nanoparticle and Pan Electrospun Nanofiber Membranes for Air Filtration and Bacterial Removal. Nanomaterials, 2019, 9, 1740.	4.1	80
33	Pickering emulsions stabilized with two-dimensional (2D) materials: A comparative study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 563, 183-192.	4.7	12
34	Adsorption and photocatalytic oxidation of ibuprofen using nanocomposites of TiO2 nanofibers combined with BN nanosheets: Degradation products and mechanisms. Chemosphere, 2019, 220, 921-929.	8.2	97
35	Natural payload delivery of the doxorubicin anticancer drug from boron nitride oxide nanosheets. Applied Surface Science, 2019, 475, 666-675.	6.1	42
36	Electrospun Nanofibers for Drug Delivery in Regenerative Medicine. , 2019, , 595-625.		11

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37	Chemistry of a series of aluminum-modified polysilazanes: Synthesis, pyrolysis behaviour and microstructural evolution. Journal of the European Ceramic Society, 2019, 39, 183-194.	5.7	11
38	Analysis of ultraviolet photo-response of ZnO nanostructures prepared by electrodeposition and atomic layer deposition. Applied Surface Science, 2018, 444, 253-259.	6.1	20
39	Porous Gelatin Membrane Obtained from Pickering Emulsions Stabilized by Graphene Oxide. Langmuir, 2018, 34, 1542-1549.	3.5	28
40	High photodegradation and antibacterial activity of BNâ€“Ag/TiO₂ composite nanofibers under visible light. New Journal of Chemistry, 2018, 42, 1250-1259.	2.8	80
41	Novel and Facile Route for the Synthesis of Tunable Boron Nitride Nanotubes Combining Atomic Layer Deposition and Annealing Processes for Water Purification. Advanced Materials Interfaces, 2018, 5, 1800056.	3.7	45
42	Nano Fibrous Scaffolds for Tissue Engineering Application. , 2018, , 1-28.		1
43	Robust 3D Boron Nitride Nanoscaffolds for Remarkable Hydrogen Storage Capacity from Ammonia Borane. Energy Technology, 2018, 6, 570-577.	3.8	22
44	Optical and structural properties of Al 2 O 3 doped ZnO nanotubes prepared by ALD and their photocatalytic application. Surface and Coatings Technology, 2018, 343, 24-29.	4.8	21
45	Optical properties of ZnO deposited by atomic layer deposition (ALD) on Si nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 139-146.	3.5	19
46	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. Chemistry of Materials, 2018, 30, 7368-7390.	6.7	133
47	Boron Nitride as a Novel Support for Highly Stable Palladium Nanocatalysts by Atomic Layer Deposition. Nanomaterials, 2018, 8, 849.	4.1	21
48	Atomic layer deposition for biosensing applications. Biosensors and Bioelectronics, 2018, 122, 147-159.	10.1	86
49	Exfoliation of Hexagonal Boron Nitride (h-BN) in Liquide Phase by Ion Intercalation. Nanomaterials, 2018, 8, 716.	4.1	72
50	Recent Progress on Titanium Dioxide Nanomaterials for Photocatalytic Applications. ChemSusChem, 2018, 11, 3023-3047.	6.8	243
51	Development of novel h-BNNS/PVA porous membranes via Pickering emulsion templating. Green Chemistry, 2018, 20, 4319-4329.	9.0	46
52	Design of Multilayers of Urchin-like ZnO Nanowires Coated with TiO₂Nanostructures for Dye-Sensitized Solar Cells. ACS Applied Nano Materials, 2018, 1, 3705-3714.	5.0	16
53	Urchin-inspired ZnO-TiO2 core-shell as building blocks for dye sensitized solar cells. Materials and Design, 2017, 126, 314-321.	7.0	20
54	Boron Nitride Nanoporous Membranes with High Surface Charge by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 16669-16678.	8.0	83

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55	Enhanced Visible-Light Photocatalytic Performance of Electrospun rGO/TiO₂ Composite Nanofibers. Journal of Physical Chemistry C, 2017, 121, 261-269.	3.1	119
56	Mechanical properties of boron nitride thin films prepared by atomic layer deposition. CrystEngComm, 2017, 19, 6089-6094.	2.6	36
57	Inverse Pickering Emulsion Stabilized by Exfoliated Hexagonal-Boron Nitride (h-BN). Langmuir, 2017, 33, 13394-13400.	3.5	27
58	Molecularâ€Level Processing of Siâ€(B)â€C Materials with Tailored Nano/Microstructures. Chemistry - A European Journal, 2017, 23, 17103-17117.	3.3	18
59	Mesoporous ZnFe₂O₄@TiO₂ Nanofibers Prepared by Electrospinning Coupled to PECVD as Highly Performing Photocatalytic Materials. Journal of Physical Chemistry C, 2017, 121, 24669-24677.	3.1	88
60	¹¹ B MASâ€‰NMR Study of the Thermolytic Dehydrocoupling of Two Ammonia Boranes upon the Release of One Equivalent of H₂ at Isothermal Conditions. ChemistrySelect, 2017, 2, 9396-9401.	1.5	13
61	Electrospun fibers in regenerative tissue engineering and drug delivery. Pure and Applied Chemistry, 2017, 89, 1799-1808.	1.9	15
62	Design of Boron Nitride/Gelatin Electrospun Nanofibers for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2017, 9, 33695-33706.	8.0	135
63	Enhanced photocatalytic performance of novel electrospun BN/TiO₂ composite nanofibers. New Journal of Chemistry, 2017, 41, 81-89.	2.8	79
64	Nanocomposites through the Chemistry of Singleâ€Source Precursors: Understanding the Role of Chemistry behind the Design of Monolithâ€Type Nanostructured Titanium Nitride/Silicon Nitride. Chemistry - A European Journal, 2017, 23, 832-845.	3.3	39
65	Theoretical calculation of the electronic structure of ZnO molecule. Journal of Physics: Conference Series, 2017, 869, 012012.	0.4	0
66	Boron-Based (Nano-)Materials: Fundamentals and Applications. Crystals, 2016, 6, 118.	2.2	5
67	In situ Synchrotron X-ray Thermodiffraction of Boranes. Crystals, 2016, 6, 16.	2.2	8
68	Ammonia borane H 3 N BH 3 for solid-state chemical hydrogen storage: Different samples with different thermal behaviors. International Journal of Hydrogen Energy, 2016, 41, 15462-15470.	7.1	37
69	Byâ€Product Carrying Humidified Hydrogen: An Underestimated Issue in the Hydrolysis of Sodium Borohydride. ChemSusChem, 2016, 9, 1777-1780.	6.8	17
70	Polymerâ€Derived Silicoboron Carbonitride Foams for CO₂ Capture: From Design to Application as Scaffolds for the in Situ Growth of Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2016, 22, 8346-8357.	3.3	16
71	Polymer-derived Si-C-Ti systems: From titanium nanoparticle-filled polycarbosilanes to dense monolithic multi-phase components with high hardness. Journal of the European Ceramic Society, 2016, 36, 3671-3679.	5.7	29
72	Screening and scale-up of cerium oxide-based binary/ternary systems as oxidation catalysts. RSC Advances, 2016, 6, 27426-27433.	3.6	2

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73	Organosilicon polymer-derived mesoporous 3D silicon carbide, carbonitride and nitride structures as platinum supports for hydrogen generation by hydrolysis of sodium borohydride. International Journal of Hydrogen Energy, 2016, 41, 15477-15488.	7.1	57
74	Polymer-derived ceramics route toward SiCN and SiBCN fibers: from chemistry of polycarbosilazanes to the design and characterization of ceramic fibers. Journal of the Ceramic Society of Japan, 2016, 124, 967-980.	1.1	47
75	Reaction intermediate/product-induced segregation in cobaltâ€“copper as the catalyst for hydrogen generation from the hydrolysis of sodium borohydride. RSC Advances, 2016, 6, 102498-102503.	3.6	13
76	Synthesis of novel ZnO/ZnAl₂O₄ multi co-centric nanotubes and their long-term stability in photocatalytic application. RSC Advances, 2016, 6, 103692-103699.	3.6	47
77	Design of graphene oxide/gelatin electrospun nanocomposite fibers for tissue engineering applications. RSC Advances, 2016, 6, 109150-109156.	3.6	26
78	Fluorescence Quenching of SulfoÂ-rhodamine Dye over Graphene Oxide and Boron Nitride Nanosheets. European Journal of Inorganic Chemistry, 2016, 2016, 2125-2130.	2.0	25
79	In situ thermodiffraction to monitor synthesis and thermolysis of hydrazine borane-based materials. Journal of Alloys and Compounds, 2016, 659, 210-216.	5.5	9
80	Silicon carbide-based membranes with high soot particle filtration efficiency, durability and catalytic activity for CO/HC oxidation and soot combustion. Journal of Membrane Science, 2016, 501, 79-92.	8.2	54
81	Novel biocompatible electrospun gelatin fiber mats with antibiotic drug delivery properties. Journal of Materials Chemistry B, 2016, 4, 1134-1141.	5.8	49
82	Boron nitride ceramics from molecular precursors: synthesis, properties and applications. Dalton Transactions, 2016, 45, 861-873.	3.3	41
83	Mechanistic insights of metal acetylacetonate-aided dehydrocoupling of liquid-state ammonia borane NH₃BH₃. Advances in Energy Research, 2016, 4, 177-187.	0.4	6
84	Ionic transport through sub-10â€‰nm diameter hydrophobic high-aspect ratio nanopores: experiment, theory and simulation. Scientific Reports, 2015, 5, 10135.	3.3	72
85	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. Journal of Materials Chemistry C, 2015, 3, 6815-6821.	5.5	63
86	Tunable properties of GO-doped CoFe₂O₄ nanofibers elaborated by electrospinning. RSC Advances, 2015, 5, 97849-97854.	3.6	19
87	Optical properties of ultrathin Al2O3/ZnO nanolaminates. Thin Solid Films, 2015, 594, 96-100.	1.8	25
88	Metal hydrideâ€“hydrazine borane: Towards hydrazinidoboranes or composites as hydrogen carriers. International Journal of Hydrogen Energy, 2015, 40, 14875-14884.	7.1	12
89	Preparation of polymer-derived Siâ€“Bâ€“Câ€“N monoliths by spark plasma sintering technique. Journal of the European Ceramic Society, 2015, 35, 1361-1374.	5.7	49
90	Cyclic Dehydrogenationâ€“(Re)Hydrogenation with Hydrogenâ€Storage Materials: An Overview. Energy Technology, 2015, 3, 100-117.	3.8	39

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91	Facile Synthesis and High Rate Capability of Silicon Carbonitride/Boron Nitride Composite with a Sheet-Like Morphology. Journal of Physical Chemistry C, 2015, 119, 2783-2791.	3.1	44
92	Highly crystalline MOF-based materials grown on electrospun nanofibers. Nanoscale, 2015, 7, 5794-5802.	5.6	95
93	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. Nanotechnology, 2015, 26, 105501.	2.6	67
94	Atomic layer deposition of biobased nanostructured interfaces for energy, environmental and health applications. Pure and Applied Chemistry, 2015, 87, 751-758.	1.9	11
95	Monodisperse platinum nanoparticles supported on highly ordered mesoporous silicon nitride nanoblocks: superior catalytic activity for hydrogen generation from sodium borohydride. RSC Advances, 2015, 5, 58943-58951.	3.6	41
96	A preliminary study of sodium octahydrotriborate NaB3H8 as potential anodic fuel of direct liquid fuel cell. Journal of Power Sources, 2015, 286, 10-17.	7.8	19
97	Key Study on the Potential of Hydrazine Bisborane for Solid- and Liquid-State Chemical Hydrogen Storage. Inorganic Chemistry, 2015, 54, 4574-4583.	4.0	18
98	Pure hydrogen-generating â€œdopedâ€•sodium hydrazinidoborane. International Journal of Hydrogen Energy, 2015, 40, 7475-7482.	7.1	11
99	Graphene-like BN/gelatin nanobiocomposites for gas barrier applications. Nanoscale, 2015, 7, 613-618.	5.6	61
100	ALD thin ZnO layer as an active medium in a fiber-optic Fabryâ€“Perot interferometer. Sensors and Actuators A: Physical, 2015, 221, 88-94.	4.1	40
101	Formation mechanism of polyaniline selfâ€assembled needles and urchinâ€like structures assisted by magnesium oxide. Polymer International, 2015, 64, 505-512.	3.1	3
102	Photoluminescence: A very sensitive tool to detect the presence of anatase in rutile phase electrospun TiO 2 nanofibers. Superlattices and Microstructures, 2015, 77, 18-24.	3.1	48
103	Design of CoFe2O4/Co3O4 nanofibers with tunable morphology by Electrospinning. Materials Letters, 2015, 140, 27-30.	2.6	16
104	An innovative approach for the preparation of confined ZIF-8 membranes by conversion of ZnO ALD layers. Journal of Membrane Science, 2015, 475, 39-46.	8.2	92
105	Theoretical calculation of the low-lying electronic states of the molecule BN. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 58-66.	2.3	6
106	BN Nanoceramics. , 2015, , 1-12.		0
107	Polymer-Derived Boron Nitride: A Review on the Chemistry, Shaping and Ceramic Conversion of Borazine Derivatives. Materials, 2014, 7, 7436-7459.	2.9	78
108	ZnO 1D nanostructures designed by combining atomic layer deposition and electrospinning for UV sensor applications. Journal of Materials Chemistry A, 2014, 2, 20650-20658.	10.3	93

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109	Processing, Mechanical Characterization, and Alkali Resistance of SiliconBoronOxycarbide (<scp><scp>SiBOC</scp></scp>) Glass Fibers. Journal of the American Ceramic Society, 2014, 97, 3143-3149.	3.8	19
110	Nanostructured and architectured boron nitride from boron, nitrogen and hydrogen-containing molecular and polymeric precursors. Materials Today, 2014, 17, 443-450.	14.2	59
111	Hollow core@mesoporous shell boron nitride nanopolyhedron-confined ammonia borane: a pure Bâ€“Nâ€“H composite for chemical hydrogen storage. Journal of Materials Chemistry A, 2014, 2, 7717.	10.3	49
112	Borohydride-induced destabilization of hydrazine borane. International Journal of Hydrogen Energy, 2014, 39, 9321-9329.	7.1	8
113	A highly efficient gold/electrospun PAN fiber material for improved laccase biocathodes for biofuel cell applications. Journal of Materials Chemistry A, 2014, 2, 2794.	10.3	38
114	Lithium Hydrazinidoborane: A Polymorphic Material with Potential for Chemical Hydrogen Storage. Chemistry of Materials, 2014, 26, 3249-3255.	6.7	28
115	Nickel- and platinum-containing core@shell catalysts for hydrogen generation of aqueous hydrazine borane. Journal of Power Sources, 2014, 260, 77-81.	7.8	48
116	Cobalt-based catalysts for the hydrolysis of NaBH4 and NH3BH3. Physical Chemistry Chemical Physics, 2014, 16, 6872.	2.8	132
117	Experimental and simulation studies of unusual current blockade induced by translocation of small oxidized PEG through a single nanopore. Physical Chemistry Chemical Physics, 2014, 16, 17883.	2.8	11
118	Bimetallic nickel-based nanocatalysts for hydrogen generation from aqueous hydrazine borane: Investigation of iron, cobalt and palladium as the second metal. International Journal of Hydrogen Energy, 2014, 39, 16919-16926.	7.1	30
119	Dynamics of polymer nanoparticles through a single artificial nanopore with a high-aspect-ratio. Soft Matter, 2014, 10, 8413-8419.	2.7	33
120	Atomic Layer Deposition of zinc oxide for solar cell applications. Superlattices and Microstructures, 2014, 75, 477-484.	3.1	29
121	Ordered mesoporous polymer-derived ceramics and their processing into hierarchically porous boron nitride and silicoboron carbonitride monoliths. New Journal of Chemistry, 2014, 38, 1923-1931.	2.8	39
122	In Situ Controlled Growth of Titanium Nitride in Amorphous Silicon Nitride: A General Route Toward Bulk Nitride Nanocomposites with Very High Hardness. Advanced Materials, 2014, 26, 6548-6553.	21.0	61
123	Optical and structural properties of Al₂O₃/ZnO nanolaminates deposited by ALD method. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1505-1508.	0.8	7
124	Tuning Optical Properties of Al₂O₃/ZnO Nanolaminates Synthesized by Atomic Layer Deposition. Journal of Physical Chemistry C, 2014, 118, 3811-3819.	3.1	111
125	Reaction mechanisms of the hydrolysis of sodium borohydride: A discussion focusing on cobalt-based catalysts. Comptes Rendus Chimie, 2014, 17, 707-716.	0.5	89
126	Hydrazine borane-induced destabilization of ammonia borane, and vice versa. Journal of Hazardous Materials, 2014, 278, 158-162.	12.4	11

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127	Nanostructured Boron Nitride: From Molecular Design to Hydrogen Storage Application. Inorganics, 2014, 2, 396-409.	2.7	19
128	Polyol-Based Synthesis of Praseodymium Oxide Nanoparticles. Nanomaterials and Nanotechnology, 2014, 4, 7.	3.0	19
129	Evaluation of the processability of boronâ€containing organosilazane polymers based on shear rheology. Journal of Applied Polymer Science, 2013, 128, 248-257.	2.6	19
130	Enhanced Ionic Transport Mechanism by Gramicidin A Confined Inside Nanopores Tuned by Atomic Layer Deposition. Journal of Physical Chemistry C, 2013, 117, 15306-15315.	3.1	39
131	Siliconâ€“boronâ€“carbonâ€“nitrogen monoliths with high, interconnected and hierarchical porosity. Journal of Materials Chemistry A, 2013, 1, 10991.	10.3	37
132	Borates in hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2013, 38, 7888-7895.	7.1	41
133	Design of carbon fiber reinforced boron nitride matrix composites by vacuum-assisted polyborazylene transfer molding and pyrolysis. Journal of the European Ceramic Society, 2013, 33, 2979-2992.	5.7	19
134	Direct Synthesis of Periodic Mesoporous SilicoBoron CarboNitride Frameworks via the Nanocasting from Ordered Mesoporous Silica with Boronâ€Modified Polycarbosilazane. Advanced Engineering Materials, 2013, 15, 134-140.	3.5	19
135	Slow translocation of polynucleotides and their discrimination by Î±-hemolysin inside a single track-etched nanopore designed by atomic layer deposition. Nanoscale, 2013, 5, 9582.	5.6	64
136	Overview of the relative greenness of the main hydrogen production processes. Journal of Cleaner Production, 2013, 52, 1-10.	9.3	53
137	Preparation, Characterization, and Surface Modification of Periodic Mesoporous Siliconâ€“Aluminumâ€“Carbonâ€“Nitrogen Frameworks. Chemistry of Materials, 2013, 25, 3957-3970.	6.7	40
138	Instability of the CuCl2â€“NH3BH3 mixture followed by TGA and DSC. Thermochimica Acta, 2013, 567, 100-106.	2.7	7
139	Boron-based hydrides for chemical hydrogen storage. International Journal of Energy Research, 2013, 37, 825-842.	4.5	129
140	Nanowires with controlled porosity for hydrogen production. Journal of Materials Chemistry A, 2013, 1, 2133-2138.	10.3	29
141	Sodium Hydrazinidoborane: A Chemical Hydrogenâ€Storage Material. ChemSusChem, 2013, 6, 667-673.	6.8	37
142	A bottom-up approach to prepare cobalt-based bimetallic supported catalysts for hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2013, 38, 5627-5637.	7.1	25
143	Hybrid silica coatings on polycarbonate: enhanced properties. Journal of Sol-Gel Science and Technology, 2013, 65, 52-60.	2.4	22
144	Evolution of microstructure and related optical properties of ZnO grown by atomic layer deposition. Beilstein Journal of Nanotechnology, 2013, 4, 690-698.	2.8	92

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145	Supported nickel catalysts for the decomposition of hydrazine borane N₂H₄BH₃. Advances in Energy Research, 2013, 1, 1-12.	0.4	2
146	Chemistry, structure and processability of boron-modified polysilazanes as tailored precursors of ceramic fibers. Journal of Materials Chemistry, 2012, 22, 7739.	6.7	45
147	Nickel-based bimetallic nanocatalysts in high-extent dehydrogenation of hydrazine borane. International Journal of Hydrogen Energy, 2012, 37, 9722-9729.	7.1	51
148	Rayleigh instability induced SiC/SiO2 necklace like nanostructures. CrystEngComm, 2012, 14, 7744.	2.6	25
149	Study of the intermediate pyrolysis steps and mechanism identification of polymer-derived SiBCN ceramics. Journal of Materials Chemistry, 2012, 22, 17923.	6.7	49
150	Micro-, Mesoporous Boron Nitride-Based Materials Templated from Zeolites. Chemistry of Materials, 2012, 24, 88-96.	6.7	90
151	Transition metal-catalyzed dehydrogenation of hydrazine borane N2H4BH3 via the hydrolysis of BH3 and the decomposition of N2H4. International Journal of Hydrogen Energy, 2012, 37, 10758-10767.	7.1	44
152	Room-temperature hydrogen release from activated carbon-confined ammonia borane. International Journal of Hydrogen Energy, 2012, 37, 13437-13445.	7.1	57
153	Gaining insight into the catalytic dehydrogenation of hydrazine borane in water. International Journal of Hydrogen Energy, 2012, 37, 15983-15991.	7.1	14
154	Hydrazine borane: synthesis, characterization, and application prospects in chemical hydrogen storage. Physical Chemistry Chemical Physics, 2012, 14, 1768-1777.	2.8	127
155	Reversible multi polyelectrolyte layers on gold nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
156	ZnO nanotubes by template-assisted solâ€“gel route. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	40
157	Ammonia borane thermolytic decomposition in the presence of metal (II) chlorides. International Journal of Hydrogen Energy, 2012, 37, 6749-6755.	7.1	36
158	Polyanilineâ€“titania solid electrolyte for new generation photovoltaic single-layer devices. Materials Chemistry and Physics, 2012, 133, 1040-1049.	4.0	20
159	Structural and thermal properties of boron nitride nanoparticles. Journal of the European Ceramic Society, 2012, 32, 1867-1871.	5.7	46
160	High-yield synthesis of hollow boron nitride nano-polyhedrons. Journal of Materials Chemistry, 2011, 21, 8694.	6.7	44
161	Boron nitride multiwall nanotubes decorated with BN nanosheets. CrystEngComm, 2011, 13, 6526.	2.6	19
162	Enhanced hydrogen release by catalyzed hydrolysis of sodium borohydrideâ€“ammonia borane mixtures: a solution-state 11B NMR study. Physical Chemistry Chemical Physics, 2011, 13, 3809.	2.8	45

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163	High-extent dehydrogenation of hydrazine borane N2H4BH3 by hydrolysis of BH3 and decomposition of N2H4. Energy and Environmental Science, 2011, 4, 3355.	30.8	123
164	Chemical hydrogen storage: â€˜materialâ€™ gravimetric capacity versusâ€˜systemâ€™ gravimetric capacity. Energy and Environmental Science, 2011, 4, 3334.	30.8	105
165	CNT-Encapsulated Î²-SiC Nanocrystals: Enhanced Migration by Confinement in Carbon Channels. Crystal Growth and Design, 2011, 11, 1891-1895.	3.0	16
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