

# Philippe Miele

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8871118/publications.pdf>

Version: 2024-02-01

317  
papers

14,107  
citations

17429

63  
h-index

36008

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.	4.0	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.	7.3	402
3	Sodium borohydride versus ammonia borane, in hydrogen storage and direct fuel cell applications. Energy and Environmental Science, 2009, 2, 627.	15.6	343
4	Current Trends in Pickering Emulsions: Particle Morphology and Applications. Engineering, 2020, 6, 468-482.	3.2	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.	1.5	252
6	Recent Progress on Titanium Dioxide Nanomaterials for Photocatalytic Applications. ChemSusChem, 2018, 11, 3023-3047.	3.6	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.	3.8	211
8	Enhanced sieving from exfoliated MoS <sub>2</sub> membranes via covalent functionalization. Nature Materials, 2019, 18, 1112-1117.	13.3	196
9	Cobalt in NaBH <sub>4</sub> hydrolysis. Physical Chemistry Chemical Physics, 2010, 12, 14651.	1.3	195
10	A Raman Spectroscopy Study of Individual SiC Nanowires. Advanced Functional Materials, 2007, 17, 939-943.	7.8	168
11	Hydrolysis of Ammonia Borane as a Hydrogen Source: Fundamental Issues and Potential Solutions Towards Implementation. ChemSusChem, 2011, 4, 1731-1739.	3.6	158
12	Efficient nanoparticles removal and bactericidal action of electrospun nanofibers membranes for air filtration. Materials Science and Engineering C, 2019, 102, 718-729.	3.8	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.	3.8	139
14	Synthesis of Boron Nitride with Ordered Mesostructure. Advanced Materials, 2005, 17, 571-574.	11.1	136
15	Design of Boron Nitride/Gelatin Electrospun Nanofibers for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2017, 9, 33695-33706.	4.0	135
16	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. Chemistry of Materials, 2018, 30, 7368-7390.	3.2	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.	1.3	132
18	Boron-based hydrides for chemical hydrogen storage. International Journal of Energy Research, 2013, 37, 825-842.	2.2	129

#	ARTICLE	IF	CITATIONS
19	Hydrazine borane: synthesis, characterization, and application prospects in chemical hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1768-1777.	1.3	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.	15.6	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.	1.5	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.	5.2	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.	1.5	111
25	Chemical hydrogen storage: "material"™ gravimetric capacity versus "system"™ gravimetric capacity. <i>Energy and Environmental Science</i> , 2011, 4, 3334.	15.6	105
26	Field emission from ordered carbon nanotube-ZnO heterojunction arrays. <i>Carbon</i> , 2008, 46, 753-758.	5.4	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.	4.2	97
28	Hydrogen release through catalyzed methanolysis of solid sodium borohydride. <i>Energy and Environmental Science</i> , 2010, 3, 1796.	15.6	96
29	Highly crystalline MOF-based materials grown on electrospun nanofibers. <i>Nanoscale</i> , 2015, 7, 5794-5802.	2.8	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.	5.2	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.	1.5	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.	4.1	92
33	Micro-, Mesoporous Boron Nitride-Based Materials Templated from Zeolites. <i>Chemistry of Materials</i> , 2012, 24, 88-96.	3.2	90
34	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2021, 118, 111525.	3.8	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.	0.2	89
36	Spontaneous hydrolysis of sodium borohydride in harsh conditions. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 224-233.	3.8	88

#	ARTICLE	IF	CITATIONS
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.	1.5	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.	2.2	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.	2.2	86
40	Atomic layer deposition for biosensing applications. Biosensors and Bioelectronics, 2018, 122, 147-159.	5.3	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.	3.8	85
43	Boron Nitride Nanoporous Membranes with High Surface Charge by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 16669-16678.	4.0	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.	3.8	81
45	Boron Nitride Fibers Prepared from Symmetric and Asymmetric Alkylaminoborazines. Advanced Functional Materials, 2002, 12, 228.	7.8	80
46	Very Long SiC-Based Coaxial Nanocables with Tunable Chemical Composition. Advanced Functional Materials, 2007, 17, 3251-3257.	7.8	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.	1.4	80
48	Composites Based on Nanoparticle and Pan Electrospun Nanofiber Membranes for Air Filtration and Bacterial Removal. Nanomaterials, 2019, 9, 1740.	1.9	80
49	Enhanced photocatalytic performance of novel electrospun BN/TiO <sub>2</sub> composite nanofibers. New Journal of Chemistry, 2017, 41, 81-89.	1.4	79
50	Polymer-Derived Boron Nitride: A Review on the Chemistry, Shaping and Ceramic Conversion of Borazine Derivatives. Materials, 2014, 7, 7436-7459.	1.3	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.	3.8	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.	4.0	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.	1.5	74

#	ARTICLE	IF	CITATIONS
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.	3.2	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.	10.8	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.	1.6	72
58	Exfoliation of Hexagonal Boron Nitride (h-BN) in Liquid Phase by Ion Intercalation. <i>Nanomaterials</i> , 2018, 8, 716.	1.9	72
59	Recent Developments in Polymer-Derived Ceramic Fibers (PDCFs): Preparation, Properties and Applications – A Review. <i>Soft Materials</i> , 2007, 4, 249-286.	0.8	71
60	Cobalt (II) salts, performing materials for generating hydrogen from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2631-2637.	3.8	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.	2.8	69
62	Enhanced electroactive properties of polyurethane films loaded with carbon-coated SiC nanowires. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 055503.	1.3	68
63	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. <i>Nanotechnology</i> , 2015, 26, 105501.	1.3	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.	2.8	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.	2.8	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.	2.7	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.	2.8	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.	11.1	61
69	Graphene-like BN/gelatin nanobiocomposites for gas barrier applications. <i>Nanoscale</i> , 2015, 7, 613-618.	2.8	61
70	Hydrolysis of solid ammonia borane. <i>Journal of Power Sources</i> , 2010, 195, 4030-4035.	4.0	60
71	Improved electrochemical conversion of CO <sub>2</sub> to multicarbon products by using molecular doping. <i>Nature Communications</i> , 2021, 12, 7210.	5.8	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.	8.3	59

#	ARTICLE	IF	CITATIONS
73	Room-temperature hydrogen release from activated carbon-confined ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13437-13445.	3.8	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.	3.8	57
75	Ordered Mesoporous Silicoboron Carbonitride Materials via Preceramic Polymer Nanocasting. <i>Chemistry of Materials</i> , 2008, 20, 6325-6334.	3.2	56
76	Core-shell Au@(TiO <sub>2</sub> , SiO <sub>2</sub> ) nanoparticles with tunable morphology. <i>Chemical Communications</i> , 2010, 46, 4544.	2.2	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.	4.1	54
78	Overview of the relative greenness of the main hydrogen production processes. <i>Journal of Cleaner Production</i> , 2013, 52, 1-10.	4.6	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.	1.2	51
80	Nickel-based bimetallic nanocatalysts in high-extent dehydrogenation of hydrazine borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9722-9729.	3.8	51
81	Core-shell gold J-aggregate nanoparticles for highly efficient strong coupling applications. <i>Applied Physics Letters</i> , 2010, 96, 253107.	1.5	50
82	Overview of Protein-Based Biopolymers for Biomedical Application. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900126.	1.1	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.	2.7	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.	0.2	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.	4.2	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.	5.2	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.	2.8	49
90	Novel biocompatible electrospun gelatin fiber mats with antibiotic drug delivery properties. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1134-1141.	2.9	49

#	ARTICLE	IF	CITATIONS
91	Highly efficient acid-treated cobalt catalyst for hydrogen generation from NaBH <sub>4</sub> hydrolysis. International Journal of Hydrogen Energy, 2009, 34, 4780-4787.	3.8	48
92	Fabrication of silicon pyramid/nanowire binary structure with superhydrophobicity. Applied Surface Science, 2009, 255, 7147-7152.	3.1	48
93	Design of Highly Dense Boron Nitride by the Combination of Spray-Pyrolysis of Borazine and Additive-Free Sintering of Derived Ultrafine Powders. Chemistry of Materials, 2009, 21, 2920-2929.	3.2	48
94	Nickel- and platinum-containing core@shell catalysts for hydrogen generation of aqueous hydrazine borane. Journal of Power Sources, 2014, 260, 77-81.	4.0	48
95	Photoluminescence: A very sensitive tool to detect the presence of anatase in rutile phase electrospun TiO <sub>2</sub> nanofibers. Superlattices and Microstructures, 2015, 77, 18-24.	1.4	48
96	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. Chemical Engineering Journal, 2020, 389, 124326.	6.6	48
97	Thermal stability of mesoporous boron nitride templated with a cationic surfactant. Journal of the European Ceramic Society, 2007, 27, 313-317.	2.8	47
98	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.	0.5	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. RSC Advances, 2016, 6, 103692-103699.	1.7	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). Inorganica Chimica Acta, 1993, 209, 47-53.	1.2	46
101	Structural and thermal properties of boron nitride nanoparticles. Journal of the European Ceramic Society, 2012, 32, 1867-1871.	2.8	46
102	Development of novel h-BNNS/PVA porous membranes via Pickering emulsion templating. Green Chemistry, 2018, 20, 4319-4329.	4.6	46
103	Nanostructured boron nitride-based materials: synthesis and applications. Materials Today Advances, 2020, 8, 100107.	2.5	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. Journal of Materials Chemistry, 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. Physical Chemistry Chemical Physics, 2011, 13, 3809.	1.3	45
106	Chemistry, structure and processability of boron-modified polysilazanes as tailored precursors of ceramic fibers. Journal of Materials Chemistry, 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. Advanced Materials Interfaces, 2018, 5, 1800056.	1.9	45
108	High-yield synthesis of hollow boron nitride nano-polyhedrons. Journal of Materials Chemistry, 2011, 21, 8694.	6.7	44

#	ARTICLE	IF	CITATIONS
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.	3.8	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.	1.5	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.	0.8	43
112	Aluminum chloride for accelerating hydrogen generation from sodium borohydride. <i>Journal of Power Sources</i> , 2009, 192, 310-315.	4.0	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.	2.2	43
114	Direct synthesis of $\beta$ -SiC and h-BN coated $\beta$ -SiC nanowires. <i>Solid State Communications</i> , 2002, 124, 157-161.	0.9	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.	1.9	42
117	Natural payload delivery of the doxorubicin anticancer drug from boron nitride oxide nanosheets. <i>Applied Surface Science</i> , 2019, 475, 666-675.	3.1	42
118	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering. <i>ACS Applied Bio Materials</i> , 2020, 3, 1865-1874.	2.3	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.	2.2	41
120	Borates in hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7888-7895.	3.8	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.	1.7	41
122	Boron nitride ceramics from molecular precursors: synthesis, properties and applications. <i>Dalton Transactions</i> , 2016, 45, 861-873.	1.6	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.	10.8	41
124	ZnO nanotubes by template-assisted sol-gel route. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	40
125	Preparation, Characterization, and Surface Modification of Periodic Mesoporous Silicon-Aluminum-Carbon-Nitrogen Frameworks. <i>Chemistry of Materials</i> , 2013, 25, 3957-3970.	3.2	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.	2.0	40



#	ARTICLE	IF	CITATIONS
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.	1.9	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.	2.2	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.	2.2	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.	1.5	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.	1.4	39
132	Cyclic Dehydrogenation/(Re)Hydrogenation with Hydrogen Storage Materials: An Overview. <i>Energy Technology</i> , 2015, 3, 100-117.	1.8	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.	1.7	39
134	Porous boron nitride supports obtained from molecular precursors. <i>Journal of Organometallic Chemistry</i> , 2002, 657, 98-106.	0.8	38
135	Preparation of BN Microtubes/Nanotubes with a Unique Chemical Process. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18325-18330.	1.5	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.	5.2	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.	3.1	38
138	Borylborazines as new precursors for boron nitride fibres. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2809-2814.	0.8	37
139	Silicon-boron-carbon-nitrogen monoliths with high, interconnected and hierarchical porosity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10991.	5.2	37
140	Sodium Hydrazinidoborane: A Chemical Hydrogen Storage Material. <i>ChemSusChem</i> , 2013, 6, 667-673.	3.6	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.	3.8	37
142	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9434-9441.	1.5	37
143	More reactive cobalt chloride in the hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9444-9449.	3.8	36
144	Ammonia borane thermolytic decomposition in the presence of metal (II) chlorides. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6749-6755.	3.8	36

#	ARTICLE	IF	CITATIONS
145	Mechanical properties of boron nitride thin films prepared by atomic layer deposition. CrystEngComm, 2017, 19, 6089-6094.	1.3	36
146	Evolution of structural features and mechanical properties during the conversion of poly[(methylamino)borazine] fibers into boron nitride fibers. Journal of Solid State Chemistry, 2004, 177, 1803-1810.	1.4	35
147	Design of a Series of PreceramicB-Tri(methylamino)borazine-Based Polymers as Fiber Precursors: A Shear Rheology Investigations. Macromolecules, 2007, 40, 1028-1034.	2.2	35
148	Co-Al <sub>2</sub> O <sub>3</sub> -Cu as shaped catalyst in NaBH <sub>4</sub> hydrolysis. International Journal of Hydrogen Energy, 2010, 35, 6583-6591.	3.8	35
149	Metal chloride-doped ammonia borane thermolysis: Positive effect on induction period as well as hydrogen and borazine release. Thermochimica Acta, 2010, 509, 81-86.	1.2	35
150	Anchored cobalt film as stable supported catalyst for hydrolysis of sodium borohydride for chemical hydrogen storage. International Journal of Hydrogen Energy, 2011, 36, 14527-14533.	3.8	35
151	Crystallinity, Crystalline Quality, and Microstructural Ordering in Boron Nitride Fibers. Journal of the American Ceramic Society, 2005, 88, 1607-1614.	1.9	33
152	Ammonia borane decomposition in the presence of cobalt halides. International Journal of Hydrogen Energy, 2011, 36, 12955-12964.	3.8	33
153	Dynamics of polymer nanoparticles through a single artificial nanopore with a high-aspect-ratio. Soft Matter, 2014, 10, 8413-8419.	1.2	33
154	High purity boron nitride thin films prepared by the PDCs route. Surface and Coatings Technology, 2007, 201, 7822-7828.	2.2	32
155	Iron-based 1D nanostructures by electrospinning process. Nanotechnology, 2010, 21, 125701.	1.3	32
156	Enhancing photocatalytic performance and solar absorption by schottky nanodiodes heterojunctions in mechanically resilient palladium coated TiO <sub>2</sub> /Si nanopillars by atomic layer deposition. Chemical Engineering Journal, 2020, 392, 123702.	6.6	32
157	Synthesis, characterization and optical properties of $\pi$ -conjugated systems incorporating closo-dodecaborate clusters: new potential candidates for two-photon absorption processes. Dalton Transactions, 2005, , 3065.	1.6	31
158	Silica, carbon and boron nitride monoliths with hierarchical porosity prepared by spark plasma sintering process. Microporous and Mesoporous Materials, 2008, 111, 643-648.	2.2	31
159	Open-celled silicon carbide foams with high porosity from boron-modified polycarbosilanes. Journal of the European Ceramic Society, 2019, 39, 5114-5122.	2.8	31
160	Preparation of boron nitride-based coatings on metallic substrates via infrared irradiation of dip-coated polyborazylene. Journal of Materials Chemistry, 2009, 19, 2671.	6.7	30
161	Engineering of silicon-based ceramic fibers: Novel SiTaC(O) ceramic fibers prepared from polytantalosilane. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7086-7091.	2.6	30
162	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.	3.8	30

#	ARTICLE	IF	CITATIONS
163	Boron nitride matrices and coatings from boryl borazine molecular precursors. <i>Journal of Materials Chemistry</i> , 1999, 9, 2605-2610.	6.7	29
164	Title is missing!. <i>Journal of Materials Chemistry</i> , 2001, 11, 3014-3017.	6.7	29
165	Nanowires with controlled porosity for hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2133-2138.	5.2	29
166	Atomic Layer Deposition of zinc oxide for solar cell applications. <i>Superlattices and Microstructures</i> , 2014, 75, 477-484.	1.4	29
167	Polymer-derived Si-C-Ti systems: From titanium nanoparticle-filled polycarbosilanes to dense monolithic multi-phase components with high hardness. <i>Journal of the European Ceramic Society</i> , 2016, 36, 3671-3679.	2.8	29
168	Synthesis and X-ray structural characterisation of the tetramethylene oxonium derivative of the hydrodecaborate anion. A versatile route for derivative chemistry of $[B_{10}H_{10}]2\hat{a}^-$ . <i>Journal of Organometallic Chemistry</i> , 2004, 689, 2581-2585.	0.8	28
169	Lithium Hydrazinidoborane: A Polymorphic Material with Potential for Chemical Hydrogen Storage. <i>Chemistry of Materials</i> , 2014, 26, 3249-3255.	3.2	28
170	Porous Gelatin Membrane Obtained from Pickering Emulsions Stabilized by Graphene Oxide. <i>Langmuir</i> , 2018, 34, 1542-1549.	1.6	28
171	New method of synthesis of 6-hydroxy-nido-decaborane $6-(OH)B_{10}H_{13}$ by cage opening of $closo-[B_{10}H_{10}]2\hat{a}^-$ . <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2787-2789.	0.8	27
172	Synthesis of boron nitride with a cubic mesostructure. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 286-291.	2.2	27
173	Inverse Pickering Emulsion Stabilized by Exfoliated Hexagonal-Boron Nitride (h-BN). <i>Langmuir</i> , 2017, 33, 13394-13400.	1.6	27
174	Conversion of $B(NHCH_3)_3$ into boron nitride and polyborazine fibres and tubular BN structures derived therefrom. <i>Journal of Materials Chemistry</i> , 1999, 9, 757-761.	6.7	26
175	Synthesis of $[B_{12}H_{12}]2\hat{a}^-$ based extractants and their application for the treatment of nuclear wastes. <i>Journal of Organometallic Chemistry</i> , 2002, 657, 83-90.	0.8	26
176	Design of graphene oxide/gelatin electrospun nanocomposite fibers for tissue engineering applications. <i>RSC Advances</i> , 2016, 6, 109150-109156.	1.7	26
177	Synthesis and x-ray crystal structure of a mononuclear aryloxide-crown ether of barium: $[Ba(OAr)_2(18-crown-6)] \cdot (2ArOH)(18-crown-6)$ (Ar = C <sub>6</sub> H <sub>3</sub> But <sub>2-3,5</sub> ). <i>Polyhedron</i> , 1993, 12, 267-271.	1.0	25
178	A new polyborazine-based route to boron nitride fibres. <i>Journal of Materials Chemistry</i> , 2004, 14, 2609.	6.7	25
179	Study of the dispersion of VOCs emitted by a municipal solid waste landfill. <i>Atmospheric Environment</i> , 2009, 43, 1926-1931.	1.9	25
180	Rayleigh instability induced SiC/SiO <sub>2</sub> necklace like nanostructures. <i>CrystEngComm</i> , 2012, 14, 7744.	1.3	25

#	ARTICLE	IF	CITATIONS
181	A bottom-up approach to prepare cobalt-based bimetallic supported catalysts for hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5627-5637.	3.8	25
182	Optical properties of ultrathin Al <sub>2</sub> O <sub>3</sub> /ZnO nanolaminates. <i>Thin Solid Films</i> , 2015, 594, 96-100.	0.8	25
183	Fluorescence Quenching of SulfoRhodamine Dye over Graphene Oxide and Boron Nitride Nanosheets. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2125-2130.	1.0	25
184	Synthesis of the first bimetallic barium yttrium oxo alkoxide: crystal structure of [Y <sub>4</sub> Ba <sub>2</sub> (μ <sub>6</sub> -O)(μ <sub>3</sub> -OEt) <sub>8</sub> (dpm) <sub>6</sub> ] [dpm = ButC(O)CHC(O)But]. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, .	2.0	24
185	Synthesis, Characterization, and UV-vis Linear Absorption of Centrosymmetric $\mu_3$ -Systems Incorporating closo-Dodecaborate Clusters. <i>Inorganic Chemistry</i> , 2006, 45, 8743-8748.	1.9	24
186	Investigation of polymer-derived Si <sub>3</sub> N <sub>4</sub> /B <sub>2</sub> C ceramic/reduced graphene oxide composite systems as active catalysts towards the hydrogen evolution reaction. <i>Scientific Reports</i> , 2020, 10, 22003.	1.6	24
187	Soluble and volatile barium aryloxide derivatives: Synthesis and molecular structure of Ba <sub>5</sub> (μ <sub>5</sub> -OH)(μ <sub>4</sub> -OAr) <sub>4</sub> (μ <sub>2</sub> -OAr) <sub>4</sub> (OAr) (THF) <sub>5</sub> , [Ba(μ <sub>4</sub> -dpm)(dpm)(HOAr) <sub>2</sub> (THF)] <sub>2</sub> and [Ba(H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OH)(μ <sub>4</sub> -H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OH)(μ <sub>2</sub> -OH)(μ <sub>2</sub> -OAr)(HOAr)] <sub>2</sub> (Ar = C <sub>6</sub> H <sub>3</sub> But <sub>2</sub> -3,5; dpm = ) <i>J Inorg Nucl Chem</i> 1993, 47, 7843-7848	1.9	23
188	Cobalt-supported alumina as catalytic film prepared by electrophoretic deposition for hydrogen release applications. <i>Applied Surface Science</i> , 2010, 256, 7684-7691.	3.1	23
189	Hybrid silica coatings on polycarbonate: enhanced properties. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 65, 52-60.	1.1	22
190	Robust 3D Boron Nitride Nanoscaffolds for Remarkable Hydrogen Storage Capacity from Ammonia Borane. <i>Energy Technology</i> , 2018, 6, 570-577.	1.8	22
191	Elaboration and characterization of magnetic nanocomposite fibers by electrospinning. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2735-2740.	0.8	21
192	Synthesis of polystyrene coated SiC nanowires as fillers in a polyurethane matrix for electromechanical conversion. <i>Nanotechnology</i> , 2010, 21, 145610.	1.3	21
193	From soil to lab: Utilization of clays as catalyst supports in hydrogen generation from sodium borohydride fuel. <i>Fuel</i> , 2011, 90, 1919-1926.	3.4	21
194	Optical and structural properties of Al <sub>2</sub> O <sub>3</sub> doped ZnO nanotubes prepared by ALD and their photocatalytic application. <i>Surface and Coatings Technology</i> , 2018, 343, 24-29.	2.2	21
195	Boron Nitride as a Novel Support for Highly Stable Palladium Nanocatalysts by Atomic Layer Deposition. <i>Nanomaterials</i> , 2018, 8, 849.	1.9	21
196	Texture, structure and chemistry of a boron nitride fibre studied by high resolution and analytical TEM. <i>Journal of the European Ceramic Society</i> , 2002, 22, 2415-2425.	2.8	20
197	Synthesis and X-ray structural characterization of the triphenylphosphine derivative of the closo-dodecaborate anion, closo-[B <sub>12</sub> H <sub>11</sub> P(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> ][N(n-C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ]. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2745-2749.	0.8	20
198	A simple preparation method of sodium amidoborane, highly efficient derivative of ammonia borane dehydrogenating at low temperature. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7423-7430.	3.8	20

#	ARTICLE	IF	CITATIONS
199	Polyaniline@titania solid electrolyte for new generation photovoltaic single-layer devices. <i>Materials Chemistry and Physics</i> , 2012, 133, 1040-1049.	2.0	20
200	Urchin-inspired ZnO-TiO <sub>2</sub> core-shell as building blocks for dye sensitized solar cells. <i>Materials and Design</i> , 2017, 126, 314-321.	3.3	20
201	Analysis of ultraviolet photo-response of ZnO nanostructures prepared by electrodeposition and atomic layer deposition. <i>Applied Surface Science</i> , 2018, 444, 253-259.	3.1	20
202	Enhanced visible light photocatalysis by TiO <sub>2</sub> @BN enabled electrospinning of nanofibers for pharmaceutical degradation and wastewater treatment. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2921-2930.	1.6	20
203	Boron Nitride Obtained from Molecular Precursors: Aminoboranes Used as a BN Source for Coatings, Matrix, and Si <sub>3</sub> N <sub>4</sub> @BN Composite Ceramic Preparation. <i>Journal of Solid State Chemistry</i> , 1997, 133, 164-168.	1.4	19
204	Study of the 3C-SiC nucleation from a liquid phase on a C face 6H-SiC substrate. <i>Journal of Crystal Growth</i> , 2009, 311, 2385-2390.	0.7	19
205	Boron nitride multiwall nanotubes decorated with BN nanosheets. <i>CrystEngComm</i> , 2011, 13, 6526.	1.3	19
206	Evaluation of the processability of boron-containing organosilazane polymers based on shear rheology. <i>Journal of Applied Polymer Science</i> , 2013, 128, 248-257.	1.3	19
207	Design of carbon fiber reinforced boron nitride matrix composites by vacuum-assisted polyborazylene transfer molding and pyrolysis. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2979-2992.	2.8	19
208	Direct Synthesis of Periodic Mesoporous SilicoBoron CarboNitride Frameworks via the Nanocasting from Ordered Mesoporous Silica with Boron-Modified Polycarbosilazane. <i>Advanced Engineering Materials</i> , 2013, 15, 134-140.	1.6	19
209	Processing, Mechanical Characterization, and Alkali Resistance of SiliconBoronOxycarbide (SiBOC) Glass Fibers. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3143-3149.	1.9	19
210	Nanostructured Boron Nitride: From Molecular Design to Hydrogen Storage Application. <i>Inorganics</i> , 2014, 2, 396-409.	1.2	19
211	Polyol-Based Synthesis of Praseodymium Oxide Nanoparticles. <i>Nanomaterials and Nanotechnology</i> , 2014, 4, 7.	1.2	19
212	Tunable properties of GO-doped CoFe <sub>2</sub> O <sub>4</sub> nanofibers elaborated by electrospinning. <i>RSC Advances</i> , 2015, 5, 97849-97854.	1.7	19
213	A preliminary study of sodium octahydrotriborate NaB <sub>3</sub> H <sub>8</sub> as potential anodic fuel of direct liquid fuel cell. <i>Journal of Power Sources</i> , 2015, 286, 10-17.	4.0	19
214	Optical properties of ZnO deposited by atomic layer deposition (ALD) on Si nanowires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 236-237, 139-146.	1.7	19
215	Key Study on the Potential of Hydrazine Bisborane for Solid- and Liquid-State Chemical Hydrogen Storage. <i>Inorganic Chemistry</i> , 2015, 54, 4574-4583.	1.9	18
216	Molecular-Level Processing of Si(B) Materials with Tailored Nano/Microstructures. <i>Chemistry - A European Journal</i> , 2017, 23, 17103-17117.	1.7	18

#	ARTICLE	IF	CITATIONS
217	Superior efficiency of BN/Ce2O3/TiO2 nanofibers for photocatalytic hydrogen generation reactions. Applied Surface Science, 2022, 594, 153438.	3.1	18
218	Large-scale preparation of faceted Si<sub>3</sub>N<sub>4</sub> nanorods from Î²-SiC nanowires. Nanotechnology, 2007, 18, 335305.	1.3	17
219	By-Product Carrying Humidified Hydrogen: An Underestimated Issue in the Hydrolysis of Sodium Borohydride. ChemSusChem, 2016, 9, 1777-1780.	3.6	17
220	Sacrificial mold-assisted 3D printing of stable biocompatible gelatin scaffolds. Bioprinting, 2021, 22, e00140.	2.9	17
221	Shaping potentialities of aluminum nitride polymeric precursors. Journal of the European Ceramic Society, 2009, 29, 857-861.	2.8	16
222	Synthesis, Characterization, and Crystal Structure of a New Trisodium Triborate, Na<sub>3</sub>[B<sub>3</sub>O<sub>4</sub>(OH)<sub>4</sub>]. Inorganic Chemistry, 2010, 49, 4830-4835.	1.9	16
223	CNT-Encapsulated Î²-SiC Nanocrystals: Enhanced Migration by Confinement in Carbon Channels. Crystal Growth and Design, 2011, 11, 1891-1895.	1.4	16
224	Design of CoFe2O4/Co3O4 nanofibers with tunable morphology by Electrospinning. Materials Letters, 2015, 140, 27-30.	1.3	16
225	Polymer-Derived Silicoboron Carbonitride Foams for CO<sub>2</sub> Capture: From Design to Application as Scaffolds for the in Situ Growth of Metal-Organic Frameworks. Chemistry - A European Journal, 2016, 22, 8346-8357.	1.7	16
226	Design of Multilayers of Urchin-like ZnO Nanowires Coated with TiO<sub>2</sub> Nanostructures for Dye-Sensitized Solar Cells. ACS Applied Nano Materials, 2018, 1, 3705-3714.	2.4	16
227	A new barium complex based on Ba(dpm)2: Ba6(dpm)10(H2O)6(O2). An unexpected barium peroxy-Î²-diketonate structurally characterized. Polyhedron, 1995, 14, 297-300.	1.0	15
228	High-resolution 15N solid-state NMR investigations on borazine-based precursors. Applied Organometallic Chemistry, 2004, 18, 227-232.	1.7	15
229	Complete characterisation of BN fibres obtained from a new polyborylborazine. Journal of the European Ceramic Society, 2005, 25, 137-141.	2.8	15
230	Influence of the thermal process of carbon template removal in the mesoporous boron nitride synthesis. Journal of Porous Materials, 2008, 15, 13-20.	1.3	15
231	Ultrathin Polycrystalline Hematite and Goethite Hematite Core-Shell Nanorods. Langmuir, 2009, 25, 2551-2553.	1.6	15
232	Electrospun fibers in regenerative tissue engineering and drug delivery. Pure and Applied Chemistry, 2017, 89, 1799-1808.	0.9	15
233	THERMAL OLIGOMERIZATION OF UNSYMMETRICALLY B-TRISUBSTITUTED BORAZINES. Main Group Metal Chemistry, 1999, 22, .	0.6	14
234	Gaining insight into the catalytic dehydrogenation of hydrazine borane in water. International Journal of Hydrogen Energy, 2012, 37, 15983-15991.	3.8	14

#	ARTICLE	IF	CITATIONS
235	Boron nitride thin fibres obtained from a new copolymer borazineâ€“tri(methylamino)borazine precursor. Journal of Organometallic Chemistry, 2002, 657, 107-114.	0.8	13
236	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.	1.7	13
237	<sup>11</sup> B MASâ€“NMR Study of the Thermolytic Dehydrocoupling of Two Ammonia Boranes upon the Release of One Equivalent of H <sub>2</sub> at Isothermal Conditions. ChemistrySelect, 2017, 2, 9396-9401.	0.7	13
238	Influence of Molecular Precursor Structure on the Crystallinity of Boron Nitride. Journal of Solid State Chemistry, 2000, 154, 137-140.	1.4	12
239	Fluorinated cobalt for catalyzing hydrogen generation from sodium borohydride. International Journal of Hydrogen Energy, 2009, 34, 5417-5421.	3.8	12
240	Thermal behaviour of a series of poly[B-(methylamino)borazine] for the preparation of boron nitride fibers. Journal of the European Ceramic Society, 2009, 29, 851-855.	2.8	12
241	Metal hydrideâ€“hydrazine borane: Towards hydrazinidoboranes or composites as hydrogen carriers. International Journal of Hydrogen Energy, 2015, 40, 14875-14884.	3.8	12
242	Pickering emulsions stabilized with two-dimensional (2D) materials: A comparative study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 563, 183-192.	2.3	12
243	Design and Manufacturing of Si-Based Non-Oxide Cellular Ceramic Structures through Indirect 3D Printing. Materials, 2022, 15, 471.	1.3	12
244	Si <sub>3</sub> N <sub>4</sub> -BN composites obtained from aminoboranes as BN precursors and sintering aids. Journal of the European Ceramic Society, 1997, 17, 1911-1915.	2.8	11
245	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.	1.3	11
246	Hydrazine borane-induced destabilization of ammonia borane, and vice versa. Journal of Hazardous Materials, 2014, 278, 158-162.	6.5	11
247	Atomic layer deposition of biobased nanostructured interfaces for energy, environmental and health applications. Pure and Applied Chemistry, 2015, 87, 751-758.	0.9	11
248	Pure hydrogen-generating â€œdopedâ€“sodium hydrazinidoborane. International Journal of Hydrogen Energy, 2015, 40, 7475-7482.	3.8	11
249	On the Use of MOFs and ALD Layers as Nanomembranes for the Enhancement of Gas Sensors Selectivity. Nanomaterials, 2019, 9, 1552.	1.9	11
250	Electrospun Nanofibers for Drug Delivery in Regenerative Medicine. , 2019, , 595-625.		11
251	Chemistry of a series of aluminum-modified polysilazanes: Synthesis, pyrolysis behaviour and microstructural evolution. Journal of the European Ceramic Society, 2019, 39, 183-194.	2.8	11
252	Crystal structure of (1/4 2, 1/4 2-dioxotetramethyldisiloxane)(1/4 2, 1/4 2) Tj ETQq0 0 0 r gBT /Overlock 10 Tf 50 72 Td (2-dioxohexamethylt barium diyttrium, C69H121BaN3O15Si5Y2. Zeitschrift Fur Kristallographie - Crystalline Materials, 1994, 209, 282-284.	0.4	9

#	ARTICLE	IF	CITATIONS
253	A new bimetallic barium yttrium oxo alkoxide $Ba_2Y_4(\frac{1}{4}O)(\frac{1}{4}3-OEt)_6(\frac{1}{4}3-OH)_2(dpm)_6 \cdot 2EtOH$ : structural characterization and thermal behavior. <i>Inorganica Chimica Acta</i> , 1997, 255, 289-294.	1.2	9
254	Sol-gel Nanohybrid Materials Incorporating Functional Thiocalixarenes for Non-Linear Optical Applications. <i>Materials Research Society Symposia Proceedings</i> , 2003, 771, 7161.	0.1	9
255	Ultra high sensitive detection of mechanical resonances of nanowires by field emission microscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1645-1652.	0.8	9
256	Reversible multi polyelectrolyte layers on gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	9
257	In situ thermodiffraction to monitor synthesis and thermolysis of hydrazine borane-based materials. <i>Journal of Alloys and Compounds</i> , 2016, 659, 210-216.	2.8	9
258	Preparation of $\hat{I}^2$ -SiC nanowires and SiC@BN nanocables. <i>European Physical Journal Special Topics</i> , 2005, 124, 99-102.	0.2	8
259	Condensation of borazinic precursors for mesoporous boron nitride synthesis by carbon nanocasting. <i>Journal of Materials Research</i> , 2007, 22, 26-34.	1.2	8
260	Rheological Behavior of Poly[(Balkylamino)borazine] in a Fiber Spinning Process. <i>Soft Materials</i> , 2007, 4, 123-142.	0.8	8
261	Preparation of ZnO nanoparticles localized on SiC@SiO <sub>2</sub> nanocables by a physical templating method. <i>Journal of the European Ceramic Society</i> , 2009, 29, 863-867.	2.8	8
262	Borohydride-induced destabilization of hydrazine borane. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9321-9329.	3.8	8
263	In situ Synchrotron X-ray Thermodiffraction of Boranes. <i>Crystals</i> , 2016, 6, 16.	1.0	8
264	Enhancement of Podocyte Attachment on Polyacrylamide Hydrogels with Gelatin-Based Polymers. <i>ACS Applied Bio Materials</i> , 2020, 3, 7531-7539.	2.3	8
265	Synthesis, and two photon absorption properties of 7,7- $\hat{I}^2$ -(iminundecahydro-closo-dodecaborate)-9,9- $\hat{I}^2$ -(dihexyl)-2,2- $\hat{I}^2$ -bifluorene. <i>Chemical Communications</i> , 2008, , 3765.	2.2	7
266	Preparation of SiBCN Microtubes from Melt-Spinnable Polymers. <i>Key Engineering Materials</i> , 0, 368-372, 926-928.	0.4	7
267	Instability of the CuCl <sub>2</sub> ·NH <sub>3</sub> BH <sub>3</sub> mixture followed by TGA and DSC. <i>Thermochimica Acta</i> , 2013, 567, 100-106.	1.2	7
268	Optical and structural properties of Al <sub>2</sub> O <sub>3</sub> /ZnO nanolaminates deposited by ALD method. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 1505-1508.	0.8	7
269	Porous Gelatin Membranes Obtained from Pickering Emulsions Stabilized with h-BNNS: Application for Polyelectrolyte-Enhanced Ultrafiltration. <i>Membranes</i> , 2020, 10, 144.	1.4	7
270	Effects of p-doping on the thermal sensitivity of individual Si nanowires. <i>Applied Physics Letters</i> , 2008, 93, 193105.	1.5	6



#	ARTICLE	IF	CITATIONS
271	Shaping of Nanostructured Materials or Coatings through Spark Plasma Sintering. <i>Materials Science Forum</i> , 0, 706-709, 24-30.	0.3	6
272	Theoretical calculation of the low-lying electronic states of the molecule BN. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 151, 58-66.	1.1	6
273	Biomimetic electro-oxidation of alkyl sulfides from exfoliated molybdenum disulfide nanosheets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25053-25060.	5.2	6
274	The Interaction of the [B10H10] <sup>2-</sup> Cage with Lewis Acids and the Formation of Decaborane Derivatives by Cage-Opening Reactions. <i>Collection of Czechoslovak Chemical Communications</i> , 1997, 62, 1273-1278.	1.0	6
275	Mechanistic insights of metal acetylacetonate-aided dehydrocoupling of liquid-state ammonia borane NH <sub>3</sub> BH <sub>3</sub> . <i>Advances in Energy Research</i> , 2016, 4, 177-187.	0.4	6
276	Synthesis and molecular structure of 2,4,6-tri[bis(diisopropylamino)boryl(methylamino)]borazine, [(NiPr <sub>2</sub> ) <sub>3</sub> B(Me)N] <sub>3</sub> B <sub>3</sub> N <sub>3</sub> H <sub>3</sub> . <i>Applied Organometallic Chemistry</i> , 2003, 17, 68-72.	1.7	5
277	Correlation between structural features and mechanical properties of boron nitride fibres derived from alkylaminoborazines. <i>Journal of the European Ceramic Society</i> , 2005, 25, 157-162.	2.8	5
278	Evolution of 3C-SiC islands nucleated from a liquid phase on Si face $\hat{\pm}$ -SiC substrates. <i>Thin Solid Films</i> , 2010, 518, 4234-4241.	0.8	5
279	Boron-Based (Nano-)Materials: Fundamentals and Applications. <i>Crystals</i> , 2016, 6, 118.	1.0	5
280	Polyborosilazane-Derived Ceramic Fibers in the Si-B-C-N Quaternary System for High-Temperature Applications. , 0, , 35-42.		5
281	A New Generation of Boron-Based Ceramic Fibers: Design, Processing and Properties of SilicoBoron CarboNitride (SiBCN) Fibers from Boron-Modified Polyvinylsilazanes. <i>Advances in Science and Technology</i> , 2006, 50, 9-16.	0.2	4
282	High Surface and High Nanoporosity Boron Nitride Adapted to Hydrogen Sequestration. <i>Materials Science Forum</i> , 2007, 555, 355-362.	0.3	4
283	Preparation of nanostructured boron nitride with borazinic precursor. <i>Studies in Surface Science and Catalysis</i> , 2005, , 279-286.	1.5	3
284	Boron Nitride Nanoparticles: One-Step Synthesis from Single-Source Pre ceramic Precursors. <i>Advances in Science and Technology</i> , 0, , .	0.2	3
285	Formation mechanism of polyaniline self-assembled needles and urchin-like structures assisted by magnesium oxide. <i>Polymer International</i> , 2015, 64, 505-512.	1.6	3
286	The Structure of the Pyridine Complex of p-tetrakis(phenylazo)-tetra-hydroxythiacalix[4]arene. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2003, 46, 15-17.	1.6	2
287	Kinetic Investigation of the Curing and Pyrolysis Procedures Used for the Preparation of Polymer-Derived Boron Nitride Fibres. <i>Advances in Science and Technology</i> , 2006, 45, 726.	0.2	2
288	Spectres De Masse FAB En Mode Positif De Composés Moleculaires Oxygènes Du Baryum. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1992, 101, 689-695.	0.0	2

#	ARTICLE	IF	CITATIONS
289	Screening and scale-up of cerium oxide-based binary/ternary systems as oxidation catalysts. RSC Advances, 2016, 6, 27426-27433.	1.7	2
290	Synthesis and Characterization of Cubic Silicon Carbide ( $\beta$ -SiC) and Trigonal Silicon Nitride ( $\beta$ -Si <sub>3</sub> N <sub>4</sub> ) Nanowires. Ceramic Engineering and Science Proceedings, 0, , 341-348.	0.1	2
291	Supported nickel catalysts for the decomposition of hydrazine borane N <sub>2</sub> H <sub>4</sub> BH <sub>3</sub> . Advances in Energy Research, 2013, 1, 1-12.	0.4	2
292	Hybrid materials for Optical Limiting. Materials Research Society Symposia Proceedings, 2004, 847, 274.	0.1	1
293	Boron- and Nitrogen-Containing Polymers. , 2006, , 149-173.		1
294	Borazine Based Pre ceramic Polymers for Advanced BN Materials. , 2008, , 351-371.		1
295	Dots Formation by CVD in the SiC-Si Hetero-System. Materials Science Forum, 2008, 600-603, 571-574.	0.3	1
296	Nano Fibrous Scaffolds for Tissue Engineering Application. , 2018, , 1-28.		1
297	Crystal structure of 2,4,6-tri(diisopropylamino)borazine, C <sub>18</sub> H <sub>45</sub> B <sub>3</sub> N <sub>6</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2001, 216, 115-116.	0.1	1
298	Elaboration of h-Bn Sheathed $\beta$ -SiC Nanocables. Materials Research Society Symposia Proceedings, 2003, 772, 331.	0.1	1
299	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, .	1.3	1
300	Synthesis of Boron Nitride with Ordered Mesostructure.. ChemInform, 2005, 36, no.	0.1	0
301	New Method of Synthesis of 6-Hydroxy-nido-decaborane 6-(OH)B <sub>10</sub> H <sub>13</sub> by Cage Opening of closo-[B <sub>10</sub> H <sub>10</sub> ] <sub>2</sub> -. ChemInform, 2005, 36, no.	0.1	0
302	Borylborazines as New Precursors for Boron Nitride Fibres.. ChemInform, 2005, 36, no.	0.1	0
303	Hybrid materials for nonlinear absorption. , 2005, 5934, 24.		0
304	Synthesis conditions of ordered mesostructured boron nitride prepared from borazinic precursors and CMK-3 carbon template. Materials Research Society Symposia Proceedings, 2005, 876, 1.	0.1	0
305	Microtextural and Microstructural Evolution in Poly[(Alkylamino)Borazine]-Derived Fibers During Their Conversion Into Boron Nitride Fibers. , 0, , 43-50.		0
306	Boron- and Nitrogen-Containing Polymers for Advanced Materials. , 2006, , 103-120.		0

#	ARTICLE	IF	CITATIONS
307	Metal Oxides (such as Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> ) Borohydride NaBH <sub>4</sub> . Advances in Science and Technology, 0, , .	0.2	0
308	Cobalt-Supported Clay as Catalytic Film Prepared by Electrophoretic Deposition for Hydrogen Release Applications. Advances in Science and Technology, 0, , .	0.2	0
309	Dye-Sensitized Solar Cells Based on a Natural Low Cost Halochromic Sensitizer. Materials Research Society Symposia Proceedings, 2011, 1286, 33.	0.1	0
310	Self-Assembled Nano-Needles of Polyaniline, Efficient Structures in Controlling Electrical Conductivity. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	0
311	Theoretical calculation of the electronic structure of ZnO molecule. Journal of Physics: Conference Series, 2017, 869, 012012.	0.3	0
312	Nanofibrous Scaffolds for Tissue Engineering Application. , 2019, , 665-691.		0
313	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.	0.3	0
314	Aminoboranes as versatile precursors of boron nitride: Preparation of BN matrices, coatings and fibres. Special Publication - Royal Society of Chemistry, 2007, , 84-87.	0.0	0
315	Monolithes de silice et de carbone ÅporositÃ© hiÃ©rarchisÃ©e obtenus par frittage SPS. Materiaux Et Techniques, 2007, 95, 251-258.	0.3	0
316	Synthesis and Characterization of Cubic Silicon Carbide (Î²-SiC) and Trigonal Silicon Nitride (Î±-Si <sub>3</sub> N <sub>4</sub> ) Nanowires. Ceramic Engineering and Science Proceedings, 0, , 81-88.	0.1	0
317	BN Nanoceramics. , 2015, , 1-12.		0