Philippe Miele

List of Publications by Year in Descending Order

315 papers	11,255 citations	56 h-index	84 g-index
336 ext. papers	12,734 ext. citations	6 avg, IF	6.61 L-index

#	Paper	IF	Citations
315	Design and Manufacturing of Si-Based Non-Oxide Cellular Ceramic Structures through Indirect 3D Printing.. *Materials*, **2022**, 15,	3.5	1
314	Superior efficiency of BN/Ce2O3/TiO2 nanofibers for photocatalytic hydrogen generation reactions. *Applied Surface Science*, **2022**, 153438	6.7	2
313	Sacrificial mold-assisted 3D printing of stable biocompatible gelatin scaffolds. *Bioprinting*, **2021**, 22, e00140	7	5
312	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. *Materials Science and Engineering C*, **2021**, 118, 111525	8.3	33
311	Improved electrochemical conversion of CO to multicarbon products by using molecular doping. *Nature Communications*, **2021**, 12, 7210	17.4	10
310	Enhancement of Podocyte Attachment on Polyacrylamide Hydrogels with Gelatin-Based Polymers.. *ACS Applied Bio Materials*, **2020**, 3, 7531-7539	4.1	2
309	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering.. *ACS Applied Bio Materials*, **2020**, 3, 1865-1874	4.1	18
308	Current Trends in Pickering Emulsions: Particle Morphology and Applications. *Engineering*, **2020**, 6, 468-482	9.7	110
307	Highly textured boron/nitrogen co-doped TiO2 with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. *Applied Surface Science*, **2020**, 505, 144419	6.7	20
306	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	14.7	14
305	Nanostructured boron nitride based materials: synthesis and applications. *Materials Today Advances*, **2020**, 8, 100107	7.4	25
304	Porous Gelatin Membranes Obtained from Pickering Emulsions Stabilized with h-BNNS: Application for Polyelectrolyte-Enhanced Ultrafiltration. *Membranes*, **2020**, 10,	3.8	1
303	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. *Chemical Engineering Journal*, **2020**, 389, 124326	14.7	27
302	Biomimetic electro-oxidation of alkyl sulfides from exfoliated molybdenum disulfide nanosheets. *Journal of Materials Chemistry A*, **2020**, 8, 25053-25060	13	2
301	Investigation of polymer-derived Si-(B)-C-N ceramic/reduced graphene oxide composite systems as active catalysts towards the hydrogen evolution reaction. *Scientific Reports*, **2020**, 10, 22003	4.9	6
300	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. *Journal of Physical Chemistry C*, **2020**, 124, 9434-9441	3.8	20
299	Enhanced sieving from exfoliated MoS membranes via covalent functionalization. *Nature Materials*, **2019**, 18, 1112-1117	27	104

298	Open-celled silicon carbide foams with high porosity from boron-modified polycarbosilanes. *Journal of the European Ceramic Society*, **2019**, 39, 5114-5122	6	13
297	Overview of Protein-Based Biopolymers for Biomedical Application. *Macromolecular Chemistry and Physics*, **2019**, 220, 1900126	2.6	29
296	Role of Sulfur Vacancies and Undercoordinated Mo Regions in MoS Nanosheets toward the Evolution of Hydrogen. *ACS Nano*, **2019**, 13, 6824-6834	16.7	229
295	Efficient nanoparticles removal and bactericidal action of electrospun nanofibers membranes for air filtration. *Materials Science and Engineering C*, **2019**, 102, 718-729	8.3	91
294	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	21.8	45
293	Highly efficient hydrogen sensors based on Pd nanoparticles supported on boron nitride coated ZnO nanowires. *Journal of Materials Chemistry A*, **2019**, 7, 8107-8116	13	75
292	Fracture Mechanics and Oxygen Gas Barrier Properties of Al□/ZnO Nanolaminates on PET Deposited by Atomic Layer Deposition. *Nanomaterials*, **2019**, 9,	5.4	31
291	Nanofibrous Scaffolds for Tissue Engineering Application **2019**, 665-691		
290	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	21.8	33
289	On the Use of MOFs and ALD Layers as Nanomembranes for the Enhancement of Gas Sensors Selectivity. *Nanomaterials*, **2019**, 9,	5.4	7
288	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	0.4	
287	Enhanced visible light photocatalysis by TiO-BN enabled electrospinning of nanofibers for pharmaceutical degradation and wastewater treatment. *Photochemical and Photobiological Sciences*, **2019**, 18, 2921-2930	4.2	10
286	Au-covered hollow urchin-like ZnO nanostructures for surface-enhanced Raman scattering sensing. *Journal of Materials Chemistry C*, **2019**, 7, 15066-15073	7.1	30
285	Composites Based on Nanoparticle and Pan Electrospun Nanofiber Membranes for Air Filtration and Bacterial Removal. *Nanomaterials*, **2019**, 9,	5.4	44
284	Pickering emulsions stabilized with two-dimensional (2D) materials: A comparative study. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 563, 183-192	5.1	6
283	Adsorption and photocatalytic oxidation of ibuprofen using nanocomposites of TiO nanofibers combined with BN nanosheets: Degradation products and mechanisms. *Chemosphere*, **2019**, 220, 921-929	8.4	67
282	Natural payload delivery of the doxorubicin anticancer drug from boron nitride oxide nanosheets. *Applied Surface Science*, **2019**, 475, 666-675	6.7	30
281	Electrospun Nanofibers for Drug Delivery in Regenerative Medicine **2019**, 595-625		6

280	Chemistry of a series of aluminum-modified polysilazanes: Synthesis, pyrolysis behaviour and microstructural evolution. *Journal of the European Ceramic Society*, **2019**, 39, 183-194	6	6
279	Analysis of ultraviolet photo-response of ZnO nanostructures prepared by electrodeposition and atomic layer deposition. *Applied Surface Science*, **2018**, 444, 253-259	6.7	15
278	Porous Gelatin Membrane Obtained from Pickering Emulsions Stabilized by Graphene Oxide. *Langmuir*, **2018**, 34, 1542-1549	4	19
277	High photodegradation and antibacterial activity of BN/Ag/TiO2 composite nanofibers under visible light. *New Journal of Chemistry*, **2018**, 42, 1250-1259	3.6	65
276	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	4.6	37
275	Nano Fibrous Scaffolds for Tissue Engineering Application **2018**, 1-28		0
274	Robust 3D Boron Nitride Nanoscaffolds for Remarkable Hydrogen Storage Capacity from Ammonia Borane. *Energy Technology*, **2018**, 6, 570-577	3.5	16
273	Recent Progress on Titanium Dioxide Nanomaterials for Photocatalytic Applications. *ChemSusChem* , **2018**, 11, 3023-3047	8.3	158
272	Development of novel h-BNNS/PVA porous membranes via Pickering emulsion templating. *Green Chemistry*, **2018**, 20, 4319-4329	10	32
271	Design of Multilayers of Urchin-like ZnO Nanowires Coated with TiO2 Nanostructures for Dye-Sensitized Solar Cells. *ACS Applied Nano Materials*, **2018**, 1, 3705-3714	5.6	11
270	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	4.4	14
269	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	3.1	17
268	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. *Chemistry of Materials*, **2018**, 30, 7368-7390	9.6	96
267	Boron Nitride as a Novel Support for Highly Stable Palladium Nanocatalysts by Atomic Layer Deposition. *Nanomaterials*, **2018**, 8,	5.4	16
266	Atomic layer deposition for biosensing applications. *Biosensors and Bioelectronics*, **2018**, 122, 147-159	11.8	66
265	Exfoliation of Hexagonal Boron Nitride (h-BN) in Liquide Phase by Ion Intercalation. *Nanomaterials*, **2018**, 8,	5.4	40
264	Urchin-inspired ZnO-TiO2 core-shell as building blocks for dye sensitized solar cells. *Materials and Design*, **2017**, 126, 314-321	8.1	18
263	Boron Nitride Nanoporous Membranes with High Surface Charge by Atomic Layer Deposition. *ACS Applied Materials & Interfaces*, **2017**, 9, 16669-16678	9.5	75

262	Enhanced Visible-Light Photocatalytic Performance of Electrospun rGO/TiO2 Composite Nanofibers. *Journal of Physical Chemistry C*, **2017**, 121, 261-269	3.8	98
261	Mechanical properties of boron nitride thin films prepared by atomic layer deposition. *CrystEngComm*, **2017**, 19, 6089-6094	3.3	29
260	Inverse Pickering Emulsion Stabilized by Exfoliated Hexagonal-Boron Nitride (h-BN). *Langmuir*, **2017**, 33, 13394-13400	4	23
259	Molecular-Level Processing of Si-(B)-C Materials with Tailored Nano/Microstructures. *Chemistry - A European Journal*, **2017**, 23, 17103-17117	4.8	15
258	Mesoporous ZnFe2O4@TiO2 Nanofibers Prepared by Electrospinning Coupled to PECVD as Highly Performing Photocatalytic Materials. *Journal of Physical Chemistry C*, **2017**, 121, 24669-24677	3.8	64
257	11B MAS 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	1.8	10
256	Electrospun fibers in regenerative tissue engineering and drug delivery. *Pure and Applied Chemistry*, **2017**, 89, 1799-1808	2.1	11
255	Theoretical calculation of the electronic structure of ZnO molecule. *Journal of Physics: Conference Series*, **2017**, 869, 012012	0.3	
254	Design of Boron Nitride/Gelatin Electrospun Nanofibers for Bone Tissue Engineering. *ACS Applied Materials & Interfaces*, **2017**, 9, 33695-33706	9.5	97
253	Enhanced photocatalytic performance of novel electrospun BN/TiO2 composite nanofibers. *New Journal of Chemistry*, **2017**, 41, 81-89	3.6	64
252	Nanocomposites through the Chemistry of Single-Source Precursors: Understanding the Role of Chemistry behind the Design of Monolith-Type Nanostructured Titanium Nitride/Silicon Nitride. *Chemistry - A European Journal*, **2017**, 23, 832-845	4.8	30
251	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	40
250	Reaction intermediate/product-induced segregation in cobalt□copper as the catalyst for hydrogen generation from the hydrolysis of sodium borohydride. *RSC Advances*, **2016**, 6, 102498-102503	3.7	10
249	Synthesis of novel ZnO/ZnAl2O4 multi co-centric nanotubes and their long-term stability in photocatalytic application. *RSC Advances*, **2016**, 6, 103692-103699	3.7	36
248	Design of graphene oxide/gelatin electrospun nanocomposite fibers for tissue engineering applications. *RSC Advances*, **2016**, 6, 109150-109156	3.7	21
247	Fluorescence Quenching of Sulfo□rhodamine Dye over Graphene Oxide and Boron Nitride Nanosheets. *European Journal of Inorganic Chemistry*, **2016**, 2016, 2125-2130	2.3	22
246	In situ thermodiffraction to monitor synthesis and thermolysis of hydrazine borane-based materials. *Journal of Alloys and Compounds*, **2016**, 659, 210-216	5.7	7
245	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	9.6	40

244	Novel biocompatible electrospun gelatin fiber mats with antibiotic drug delivery properties. *Journal of Materials Chemistry B*, **2016**, 4, 1134-1141	7.3	43
243	Boron nitride ceramics from molecular precursors: synthesis, properties and applications. *Dalton Transactions*, **2016**, 45, 861-73	4.3	32
242	Mechanistic insights of metal acetylacetonate-aided dehydrocoupling of liquid-state ammonia borane NH3BH3. *Advances in Energy Research*, **2016**, 4, 177-187		6
241	In situ Synchrotron X-ray Thermodiffraction of Boranes. *Crystals*, **2016**, 6, 16	2.3	7
240	Ammonia borane H3NBH3 for solid-state chemical hydrogen storage: Different samples with different thermal behaviors. *International Journal of Hydrogen Energy*, **2016**, 41, 15462-15470	6.7	28
239	By-Product Carrying Humidified Hydrogen: An Underestimated Issue in the Hydrolysis of Sodium Borohydride. *ChemSusChem*, **2016**, 9, 1777-80	8.3	11
238	Polymer-Derived Silicoboron Carbonitride Foams for CO2 Capture: From Design to Application as Scaffolds for the in Situ Growth of Metal-Organic Frameworks. *Chemistry - A European Journal*, **2016**, 22, 8346-57	4.8	14
237	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	6	25
236	Screening and scale-up of cerium oxide-based binary/ternary systems as oxidation catalysts. *RSC Advances*, **2016**, 6, 27426-27433	3.7	1
235	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	6.7	39
234	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	3.8	32
233	Highly crystalline MOF-based materials grown on electrospun nanofibers. *Nanoscale*, **2015**, 7, 5794-802	7.7	83
232	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. *Nanotechnology*, **2015**, 26, 105501	3.4	56
231	Atomic layer deposition of biobased nanostructured interfaces for energy, environmental and health applications. *Pure and Applied Chemistry*, **2015**, 87, 751-758	2.1	8
230	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	3.7	31
229	A preliminary study of sodium octahydrotriborate NaB3H8 as potential anodic fuel of direct liquid fuel cell. *Journal of Power Sources*, **2015**, 286, 10-17	8.9	17
228	Key study on the potential of hydrazine bisborane for solid- and liquid-state chemical hydrogen storage. *Inorganic Chemistry*, **2015**, 54, 4574-83	5.1	14
227	Pure hydrogen-generating doped sodium hydrazinidoborane. *International Journal of Hydrogen Energy*, **2015**, 40, 7475-7482	6.7	10

226	Graphene-like BN/gelatin nanobiocomposites for gas barrier applications. *Nanoscale*, **2015**, 7, 613-8	7.7	54
225	ALD thin ZnO layer as an active medium in a fiber-optic Fabry–Perot interferometer. *Sensors and Actuators A: Physical*, **2015**, 221, 88-94	3.9	29
224	Formation mechanism of polyaniline self-assembled needles and urchin-like structures assisted by magnesium oxide. *Polymer International*, **2015**, 64, 505-512	3.3	3
223	Photoluminescence: A very sensitive tool to detect the presence of anatase in rutile phase electrospun TiO2 nanofibers. *Superlattices and Microstructures*, **2015**, 77, 18-24	2.8	42
222	Design of CoFe2O4/Co3O4 nanofibers with tunable morphology by Electrospinning. *Materials Letters*, **2015**, 140, 27-30	3.3	14
221	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	9.6	67
220	Theoretical calculation of the low-lying electronic states of the molecule BN. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2015**, 151, 58-66	2.1	6
219	Ionic transport through sub-10 nm diameter hydrophobic high-aspect ratio nanopores: experiment, theory and simulation. *Scientific Reports*, **2015**, 5, 10135	4.9	53
218	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. *Journal of Materials Chemistry C*, **2015**, 3, 6815-6821	7.1	51
217	Tunable properties of GO-doped CoFe2O4 nanofibers elaborated by electrospinning. *RSC Advances*, **2015**, 5, 97849-97854	3.7	16
216	Optical properties of ultrathin Al2O3/ZnO nanolaminates. *Thin Solid Films*, **2015**, 594, 96-100	2.2	22
215	Metal hydride–hydrazine borane: Towards hydrazinidoboranes or composites as hydrogen carriers. *International Journal of Hydrogen Energy*, **2015**, 40, 14875-14884	6.7	12
214	Preparation of polymer-derived SiBCN monoliths by spark plasma sintering technique. *Journal of the European Ceramic Society*, **2015**, 35, 1361-1374	6	42
213	Cyclic Dehydrogenation/(Re)Hydrogenation with Hydrogen-Storage Materials: An Overview. *Energy Technology*, **2015**, 3, 100-117	3.5	22
212	A highly efficient gold/electrospun PAN fiber material for improved laccase biocathodes for biofuel cell applications. *Journal of Materials Chemistry A*, **2014**, 2, 2794	13	37
211	Lithium Hydrazinidoborane: A Polymorphic Material with Potential for Chemical Hydrogen Storage. *Chemistry of Materials*, **2014**, 26, 3249-3255	9.6	26
210	Nickel- and platinum-containing core@shell catalysts for hydrogen generation of aqueous hydrazine borane. *Journal of Power Sources*, **2014**, 260, 77-81	8.9	42
209	Cobalt-based catalysts for the hydrolysis of NaBH4 and NH3BH3. *Physical Chemistry Chemical Physics*, **2014**, 16, 6872-85	3.6	106

208	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, 17883-92	3.6	9
207	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	6.7	26
206	Dynamics of polymer nanoparticles through a single artificial nanopore with a high-aspect-ratio. *Soft Matter*, **2014**, 10, 8413-9	3.6	28
205	Atomic Layer Deposition of zinc oxide for solar cell applications. *Superlattices and Microstructures*, **2014**, 75, 477-484	2.8	20
204	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	3.6	34
203	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, 6548-53	24	51
202	Hierarchically Nanostructured Porous Boron Nitride **2014**, 267-290		0
201	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		6
200	Tuning Optical Properties of Al2O3/ZnO Nanolaminates Synthesized by Atomic Layer Deposition. *Journal of Physical Chemistry C*, **2014**, 118, 3811-3819	3.8	94
199	Reaction mechanisms of the hydrolysis of sodium borohydride: A discussion focusing on cobalt-based catalysts. *Comptes Rendus Chimie*, **2014**, 17, 707-716	2.7	43
198	Hydrazine borane-induced destabilization of ammonia borane, and vice versa. *Journal of Hazardous Materials*, **2014**, 278, 158-62	12.8	9
197	Nanostructured Boron Nitride: From Molecular Design to Hydrogen Storage Application. *Inorganics*, **2014**, 2, 396-409	2.9	18
196	Polyol-Based Synthesis of Praseodymium Oxide Nanoparticles. *Nanomaterials and Nanotechnology*, **2014**, 4, 7	2.9	12
195	Polymer-Derived Boron Nitride: A Review on the Chemistry, Shaping and Ceramic Conversion of Borazine Derivatives. *Materials*, **2014**, 7, 7436-7459	3.5	61
194	ZnO 1D nanostructures designed by combining atomic layer deposition and electrospinning for UV sensor applications. *Journal of Materials Chemistry A*, **2014**, 2, 20650-20658	13	83
193	Processing, Mechanical Characterization, and Alkali Resistance of SiliconBoronOxycarbide (SiBOC) Glass Fibers. *Journal of the American Ceramic Society*, **2014**, 97, 3143-3149	3.8	17
192	Nanostructured and architectured boron nitride from boron, nitrogen and hydrogen-containing molecular and polymeric precursors. *Materials Today*, **2014**, 17, 443-450	21.8	43
191	Hollow core@mesoporous shell boron nitride nanopolyhedron-confined ammonia borane: a pure BNH composite for chemical hydrogen storage. *Journal of Materials Chemistry A*, **2014**, 2, 7717	13	40

190	Borohydride-induced destabilization of hydrazine borane. *International Journal of Hydrogen Energy*, **2014**, 39, 9321-9329	6.7	8
189	Evaluation of the processability of boron-containing organosilazane polymers based on shear rheology. *Journal of Applied Polymer Science*, **2013**, 128, 248-257	2.9	18
188	Enhanced Ionic Transport Mechanism by Gramicidin A Confined Inside Nanopores Tuned by Atomic Layer Deposition. *Journal of Physical Chemistry C*, **2013**, 117, 15306-15315	3.8	36
187	Silicon□Boron□arbon□itrogen monoliths with high, interconnected and hierarchical porosity. *Journal of Materials Chemistry A*, **2013**, 1, 10991	13	30
186	Borates in hydrolysis of ammonia borane. *International Journal of Hydrogen Energy*, **2013**, 38, 7888-7895	6.7	37
185	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	6	17
184	Direct Synthesis of Periodic Mesoporous SilicoBoron CarboNitride Frameworks via the Nanocasting from Ordered Mesoporous Silica with Boron-Modified Polycarbosilazane. *Advanced Engineering Materials*, **2013**, 15, 134-140	3.5	18
183	Slow translocation of polynucleotides and their discrimination by □-hemolysin inside a single track-etched nanopore designed by atomic layer deposition. *Nanoscale*, **2013**, 5, 9582-6	7.7	56
182	Overview of the relative greenness of the main hydrogen production processes. *Journal of Cleaner Production*, **2013**, 52, 1-10	10.3	41
181	Preparation, Characterization, and Surface Modification of Periodic Mesoporous Silicon□luminum□arbon□itrogen Frameworks. *Chemistry of Materials*, **2013**, 25, 3957-3970	9.6	34
180	Instability of the CuCl2□NH3BH3 mixture followed by TGA and DSC. *Thermochimica Acta*, **2013**, 567, 100-106	1.9	7
179	Boron-based hydrides for chemical hydrogen storage. *International Journal of Energy Research*, **2013**, 37, 825-842	4.5	115
178	Nanowires with controlled porosity for hydrogen production. *Journal of Materials Chemistry A*, **2013**, 1, 2133-2138	13	24
177	Sodium hydrazinidoborane: a chemical hydrogen-storage material. *ChemSusChem*, **2013**, 6, 667-73	8.3	34
176	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	6.7	23
175	Hybrid silica coatings on polycarbonate: enhanced properties. *Journal of Sol-Gel Science and Technology*, **2013**, 65, 52-60	2.3	21
174	Evolution of microstructure and related optical properties of ZnO grown by atomic layer deposition. *Beilstein Journal of Nanotechnology*, **2013**, 4, 690-8	3	83
173	Supported nickel catalysts for the decomposition of hydrazine borane N2H4BH3. *Advances in Energy Research*, **2013**, 1, 1-12		2

172	Polyaniline–titania solid electrolyte for new generation photovoltaic single-layer devices. *Materials Chemistry and Physics*, **2012**, 133, 1040-1049	4.4	18
171	Structural and thermal properties of boron nitride nanoparticles. *Journal of the European Ceramic Society*, **2012**, 32, 1867-1871	6	43
170	Chemistry, structure and processability of boron-modified polysilazanes as tailored precursors of ceramic fibers. *Journal of Materials Chemistry*, **2012**, 22, 7739		39
169	Nickel-based bimetallic nanocatalysts in high-extent dehydrogenation of hydrazine borane. *International Journal of Hydrogen Energy*, **2012**, 37, 9722-9729	6.7	48
168	Rayleigh instability induced SiC/SiO2 necklace like nanostructures. *CrystEngComm*, **2012**, 14, 7744	3.3	22
167	Study of the intermediate pyrolysis steps and mechanism identification of polymer-derived SiBCN ceramics. *Journal of Materials Chemistry*, **2012**, 22, 17923		44
166	Micro-, Mesoporous Boron Nitride-Based Materials Templated from Zeolites. *Chemistry of Materials* , **2012**, 24, 88-96	9.6	83
165	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	6.7	37
164	Room-temperature hydrogen release from activated carbon-confined ammonia borane. *International Journal of Hydrogen Energy*, **2012**, 37, 13437-13445	6.7	53
163	Gaining insight into the catalytic dehydrogenation of hydrazine borane in water. *International Journal of Hydrogen Energy*, **2012**, 37, 15983-15991	6.7	14
162	Hydrazine borane: synthesis, characterization, and application prospects in chemical hydrogen storage. *Physical Chemistry Chemical Physics*, **2012**, 14, 1768-77	3.6	108
161	Poly[(Alkylamino)Borazine]-Derived Boron Nitride Fibers for Composite Applications. *Ceramic Transactions*, **2012**, 1-10	0.1	
160	Reversible multi polyelectrolyte layers on gold nanoparticles. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	7
159	ZnO nanotubes by template-assisted sol–gel route. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	37
158	Ammonia borane thermolytic decomposition in the presence of metal (II) chlorides. *International Journal of Hydrogen Energy*, **2012**, 37, 6749-6755	6.7	26
157	Shaping of Nanostructured Materials or Coatings through Spark Plasma Sintering. *Materials Science Forum*, **2012**, 706-709, 24-30	0.4	4
156	Chemical hydrogen storage: material gravimetric capacity versus system gravimetric capacity. *Energy and Environmental Science*, **2011**, 4, 3334	35.4	99
155	CNT-Encapsulated β-SiC Nanocrystals: Enhanced Migration by Confinement in Carbon Channels. *Crystal Growth and Design*, **2011**, 11, 1891-1895	3.5	15

154	Novel monolith-type boron nitride hierarchical foams obtained through integrative chemistry. *Journal of Materials Chemistry*, **2011**, 21, 14025		67
153	Ammonia borane decomposition in the presence of cobalt halides. *International Journal of Hydrogen Energy*, **2011**, 36, 12955-12964	6.7	31
152	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	6.7	32
151	Deactivation and reactivation of cobalt in hydrolysis of sodium borohydride. *International Journal of Hydrogen Energy*, **2011**, 36, 13669-13675	6.7	70
150	A simple preparation method of sodium amidoborane, highly efficient derivative of ammonia borane dehydrogenating at low temperature. *International Journal of Hydrogen Energy*, **2011**, 36, 7423-7430	6.7	18
149	Hydrolysis of ammonia borane as a hydrogen source: fundamental issues and potential solutions towards implementation. *ChemSusChem*, **2011**, 4, 1731-9	8.3	143
148	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	5.3	49
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146	Ex situ characterization of N2H4-, NaBH4- and NH3BH3-reduced cobalt catalysts used in NaBH4 hydrolysis. *Catalysis Today*, **2011**, 170, 3-12	5.3	38
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List of Publications

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