

# Philippe Miele

## List of Publications by Citations

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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	Fabrication of free-standing, electrochemically active, and biocompatible graphene oxide-polyaniline and graphene-polyaniline hybrid papers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 2521-9	9.5	429
314	Sodium borohydride versus ammonia borane, in hydrogen storage and direct fuel cell applications. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 627	35.4	302
313	Role of Sulfur Vacancies and Undercoordinated Mo Regions in MoS Nanosheets toward the Evolution of Hydrogen. <i>ACS Nano</i> , <b>2019</b> , 13, 6824-6834	16.7	229
312	Sodium Borohydride Hydrolysis as Hydrogen Generator: Issues, State of the Art and Applicability Upstream from a Fuel Cell. <i>Fuel Cells</i> , <b>2010</b> , 10, 335-350	2.9	203
311	Ten-year efforts and a no-go recommendation for sodium borohydride for on-board automotive hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2638-2645	6.7	181
310	Cobalt in NaBH <sub>4</sub> hydrolysis. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 14651-65	3.6	172
309	Recent Progress on Titanium Dioxide Nanomaterials for Photocatalytic Applications. <i>ChemSusChem</i> , <b>2018</b> , 11, 3023-3047	8.3	158
308	Hydrolysis of ammonia borane as a hydrogen source: fundamental issues and potential solutions towards implementation. <i>ChemSusChem</i> , <b>2011</b> , 4, 1731-9	8.3	143
307	A Raman Spectroscopy Study of Individual SiC Nanowires. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 939-946	4.36	130
306	Bimetallic RuCo and RuCu catalysts supported on Al <sub>2</sub> O <sub>3</sub> . A comparative study of their activity in hydrolysis of ammonia-borane. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7051-7065	6.7	127
305	Synthesis of Boron Nitride with Ordered Mesostructure. <i>Advanced Materials</i> , <b>2005</b> , 17, 571-574	24	126
304	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> , <b>2005</b> , 15, 289		121
303	Boron-based hydrides for chemical hydrogen storage. <i>International Journal of Energy Research</i> , <b>2013</b> , 37, 825-842	4.5	115
302	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> , <b>2011</b> , 4, 3355	35.4	112
301	Current Trends in Pickering Emulsions: Particle Morphology and Applications. <i>Engineering</i> , <b>2020</b> , 6, 468-482	9.7	110
300	Hydrazine borane: synthesis, characterization, and application prospects in chemical hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 1768-77	3.6	108
299	Cobalt-based catalysts for the hydrolysis of NaBH <sub>4</sub> and NH <sub>3</sub> BH <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 6872-85	3.6	106

298	Enhanced sieving from exfoliated MoS membranes via covalent functionalization. <i>Nature Materials</i> , <b>2019</b> , 18, 1112-1117	27	104
297	Chemical hydrogen storage: Material gravimetric capacity versus System gravimetric capacity. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3334	35.4	99
296	Enhanced Visible-Light Photocatalytic Performance of Electrospun rGO/TiO <sub>2</sub> Composite Nanofibers. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 261-269	3.8	98
295	Design of Boron Nitride/Gelatin Electrospun Nanofibers for Bone Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33695-33706	9.5	97
294	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7368-7390	9.6	96
293	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> , <b>2014</b> , 118, 3811-3819	3.8	94
292	Efficient nanoparticles removal and bactericidal action of electrospun nanofibers membranes for air filtration. <i>Materials Science and Engineering C</i> , <b>2019</b> , 102, 718-729	8.3	91
291	Field emission from ordered carbon nanotube-ZnO heterojunction arrays. <i>Carbon</i> , <b>2008</b> , 46, 753-758	10.4	86
290	Highly crystalline MOF-based materials grown on electrospun nanofibers. <i>Nanoscale</i> , <b>2015</b> , 7, 5794-802	7.7	83
289	ZnO 1D nanostructures designed by combining atomic layer deposition and electrospinning for UV sensor applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20650-20658	13	83
288	Micro-, Mesoporous Boron Nitride-Based Materials Templated from Zeolites. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 88-96	9.6	83
287	Evolution of microstructure and related optical properties of ZnO grown by atomic layer deposition. <i>Beilstein Journal of Nanotechnology</i> , <b>2013</b> , 4, 690-8	3	83
286	Facile synthesis by polyol method of a ruthenium catalyst supported on Al <sub>2</sub> O <sub>3</sub> for hydrolytic dehydrogenation of ammonia borane. <i>Catalysis Today</i> , <b>2011</b> , 170, 85-92	5.3	81
285	Comparison between SBA-15 silica and CMK-3 carbon nanocasting for mesoporous boron nitride synthesis. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1917		81
284	Boron Nitride Nanoporous Membranes with High Surface Charge by Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16669-16678	9.5	75
283	Highly efficient hydrogen sensors based on Pd nanoparticles supported on boron nitride coated ZnO nanowires. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8107-8116	13	75
282	Very Long SiC-Based Coaxial Nanocables with Tunable Chemical Composition. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3251-3257	15.6	75
281	A multifactor study of catalyzed hydrolysis of solid NaBH <sub>4</sub> on cobalt nanoparticles: Thermodynamics and kinetics. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 938-951	6.7	74

280	Spontaneous hydrolysis of sodium borohydride in harsh conditions. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 224-233	6.7	72
279	Boron Nitride Fibers Prepared from Symmetric and Asymmetric Alkylaminoborazines. <i>Advanced Functional Materials</i> , <b>2002</b> , 12, 228	15.6	72
278	Hydrogen release through catalyzed methanolysis of solid sodium borohydride. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1796	35.4	71
277	Deactivation and reactivation of cobalt in hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 13669-13675	6.7	70
276	Hydrogen release by thermolysis of ammonia borane $NH_3BH_3$ and then hydrolysis of its by-product $[BNH_x]$ . <i>Journal of Power Sources</i> , <b>2011</b> , 196, 279-286	8.9	68
275	Synthesis of Boron Nitride Nanotubes by a Template-Assisted Polymer Thermolysis Process. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13378-13384	3.8	68
274	An innovative approach for the preparation of confined ZIF-8 membranes by conversion of ZnO ALD layers. <i>Journal of Membrane Science</i> , <b>2015</b> , 475, 39-46	9.6	67
273	Novel monolith-type boron nitride hierarchical foams obtained through integrative chemistry. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14025		67
272	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> , <b>2019</b> , 220, 921-929	8.4	67
271	Atomic layer deposition for biosensing applications. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 122, 147-159	11.8	66
270	High photodegradation and antibacterial activity of BN/Ag/TiO <sub>2</sub> composite nanofibers under visible light. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 1250-1259	3.6	65
269	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. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24669-24677	3.8	64
268	Enhanced photocatalytic performance of novel electrospun BN/TiO <sub>2</sub> composite nanofibers. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 81-89	3.6	64
267	A new class of boron nitride fibers with tunable properties by combining an electrospinning process and the polymer-derived ceramics route. <i>Nanoscale</i> , <b>2010</b> , 2, 215-7	7.7	63
266	Cobalt (II) salts, performing materials for generating hydrogen from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2631-2637	6.7	62
265	Polymer-Derived Boron Nitride: A Review on the Chemistry, Shaping and Ceramic Conversion of Borazine Derivatives. <i>Materials</i> , <b>2014</b> , 7, 7436-7459	3.5	61
264	Preparation of Polyborazylene-Derived Bulk Boron Nitride with Tunable Properties by Warm-Pressing and Pressureless Pyrolysis. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2010-2019	9.6	61
263	Enhanced electroactive properties of polyurethane films loaded with carbon-coated SiC nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 055503	3	61

262	Acetic acid, a relatively green single-use catalyst for hydrogen generation from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7231-7238	6.7	60
261	Preparation of high-temperature stable SiBCN fibers from tailored single source polyborosilazanes. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 251-256	6	60
260	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. <i>Nanotechnology</i> , <b>2015</b> , 26, 105501	3.4	56
259	Slow translocation of polynucleotides and their discrimination by hemolysin inside a single track-etched nanopore designed by atomic layer deposition. <i>Nanoscale</i> , <b>2013</b> , 5, 9582-6	7.7	56
258	Hydrolysis of solid ammonia borane. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4030-4035	8.9	56
257	Recent Developments in Polymer-Derived Ceramic Fibers (PDCFs): Preparation, Properties and Applications [A Review]. <i>Soft Materials</i> , <b>2007</b> , 4, 249-286	1.7	55
256	Graphene-like BN/gelatin nanobiocomposites for gas barrier applications. <i>Nanoscale</i> , <b>2015</b> , 7, 613-8	7.7	54
255	Ionic transport through sub-10 nm diameter hydrophobic high-aspect ratio nanopores: experiment, theory and simulation. <i>Scientific Reports</i> , <b>2015</b> , 5, 10135	4.9	53
254	Room-temperature hydrogen release from activated carbon-confined ammonia borane. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 13437-13445	6.7	53
253	Ordered Mesoporous Silicoboron Carbonitride Materials via Preceramic Polymer Nanocasting. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 6325-6334	9.6	52
252	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> , <b>2014</b> , 26, 6548-53	24	51
251	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6815-6821	7.1	51
250	Langmuir-Hinshelwood kinetic model to capture the cobalt nanoparticles-catalyzed hydrolysis of sodium borohydride over a wide temperature range. <i>Catalysis Today</i> , <b>2011</b> , 170, 13-19	5.3	49
249	Core-shell Au@(TiO <sub>2</sub> , SiO <sub>2</sub> ) nanoparticles with tunable morphology. <i>Chemical Communications</i> , <b>2010</b> , 46, 4544-6	5.8	49
248	Nickel-based bimetallic nanocatalysts in high-extent dehydrogenation of hydrazine borane. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9722-9729	6.7	48
247	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> , <b>2005</b> , 25, 111-121	6	48
246	BN/GdxTi(1-x)O(4-x)/2 nanofibers for enhanced photocatalytic hydrogen production under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 251, 76-86	21.8	45
245	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> , <b>2006</b> , 110, 9048-60	3.4	45

244	Study of the intermediate pyrolysis steps and mechanism identification of polymer-derived SiBCN ceramics. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17923		44
243	Enhanced hydrogen release by catalyzed hydrolysis of sodium borohydride-ammonia borane mixtures: a solution-state <sup>11</sup> B NMR study. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 3809-18	3.6	44
242	Fabrication of silicon pyramid/nanowire binary structure with superhydrophobicity. <i>Applied Surface Science</i> , <b>2009</b> , 255, 7147-7152	6.7	44
241	Thermal stability of mesoporous boron nitride templated with a cationic surfactant. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 313-317	6	44
240	Composites Based on Nanoparticle and Pan Electrospun Nanofiber Membranes for Air Filtration and Bacterial Removal. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	44
239	Novel biocompatible electrospun gelatin fiber mats with antibiotic drug delivery properties. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 1134-1141	7.3	43
238	Reaction mechanisms of the hydrolysis of sodium borohydride: A discussion focusing on cobalt-based catalysts. <i>Comptes Rendus Chimie</i> , <b>2014</b> , 17, 707-716	2.7	43
237	Structural and thermal properties of boron nitride nanoparticles. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 1867-1871	6	43
236	Nanostructured and architected boron nitride from boron, nitrogen and hydrogen-containing molecular and polymeric precursors. <i>Materials Today</i> , <b>2014</b> , 17, 443-450	21.8	43
235	Design of Highly Dense Boron Nitride by the Combination of Spray-Pyrolysis of Borazine and Additive-Free Sintering of Derived Ultrafine Powders. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2920-2929	9.6	43
234	Photoluminescence: A very sensitive tool to detect the presence of anatase in rutile phase electrospun TiO <sub>2</sub> nanofibers. <i>Superlattices and Microstructures</i> , <b>2015</b> , 77, 18-24	2.8	42
233	Nickel- and platinum-containing core@shell catalysts for hydrogen generation of aqueous hydrazine borane. <i>Journal of Power Sources</i> , <b>2014</b> , 260, 77-81	8.9	42
232	Preparation of polymer-derived SiBCN monoliths by spark plasma sintering technique. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 1361-1374	6	42
231	Core-shell gold J-aggregate nanoparticles for highly efficient strong coupling applications. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 253107	3.4	42
230	Highly efficient acid-treated cobalt catalyst for hydrogen generation from NaBH <sub>4</sub> hydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 4780-4787	6.7	42
229	Overview of the relative greenness of the main hydrogen production processes. <i>Journal of Cleaner Production</i> , <b>2013</b> , 52, 1-10	10.3	41
228	Cobalt, a reactive metal in releasing hydrogen from sodium borohydride by hydrolysis: A short review and a research perspective. <i>Science China Chemistry</i> , <b>2010</b> , 53, 1870-1879	7.9	41
227	Controlling the chemistry, morphology and structure of boron nitride-based ceramic fibers through a comprehensive mechanistic study of the reactivity of spinnable polymers with ammonia. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 3126		41



226	Yttrium tetramethylheptanedionates: syntheses, crystal and molecular structures and thermal behaviours of Y(thd) <sub>3</sub> ·3H <sub>2</sub> O and Y(thd) <sub>3</sub> (thd=tBuC(O)CHC(O)tBu). <i>Inorganica Chimica Acta</i> , <b>1993</b> , 209, 47-53	2.7	41
225	Polymer-derived ceramics route toward SiCN and SiBCN fibers: from chemistry of polycarbosilazanes to the design and characterization of ceramic fibers. <i>Journal of the Ceramic Society of Japan</i> , <b>2016</b> , 124, 967-980	1	40
224	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> , <b>2016</b> , 501, 79-92	9.6	40
223	Hollow core@mesoporous shell boron nitride nanopolyhedron-confined ammonia borane: a pure BN/BA composite for chemical hydrogen storage. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7717	13	40
222	Aluminum chloride for accelerating hydrogen generation from sodium borohydride. <i>Journal of Power Sources</i> , <b>2009</b> , 192, 310-315	8.9	40
221	Exfoliation of Hexagonal Boron Nitride (h-BN) in Liquid Phase by Ion Intercalation. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	40
220	Chemistry, structure and processability of boron-modified polysilazanes as tailored precursors of ceramic fibers. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 7739		39
219	Sodium tetrahydroborate as energy/hydrogen carrier, its history. <i>Comptes Rendus Chimie</i> , <b>2009</b> , 12, 943-950		39
218	Pyrolysis of poly[2,4,6-tri(methylamino)borazine] and its conversion into BN fibers. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 657, 91-97	2.3	39
217	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> , <b>2016</b> , 41, 15477-15488	6.7	39
216	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> , <b>2011</b> , 170, 3-12	5.3	38
215	Porous boron nitride supports obtained from molecular precursors.: Influence of the precursor formulation and of the thermal treatment on the properties of the BN ceramic. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 657, 98-106	2.3	38
214	Direct synthesis of $\beta$ -SiC and h-BN coated $\beta$ -SiC nanowires. <i>Solid State Communications</i> , <b>2002</b> , 124, 157-161	1.6	38
213	Direct synthesis of amorphous silicon dioxide nanowires and helical self-assembled nanostructures derived therefrom. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 3058		38
212	High-performance boron nitride fibers obtained from asymmetric alkylaminoborazine. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 274		38
211	Novel and Facile Route for the Synthesis of Tunable Boron Nitride Nanotubes Combining Atomic Layer Deposition and Annealing Processes for Water Purification. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800056	4.6	37
210	A highly efficient gold/electrospun PAN fiber material for improved laccase biocathodes for biofuel cell applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2794	13	37
209	Borates in hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 7888-7895	6.7	37

208	Transition metal-catalyzed dehydrogenation of hydrazine borane $N_2H_4BH_3$ via the hydrolysis of $BH_3$ and the decomposition of $N_2H_4$ . <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 10758-10767	6.7	37
207	ZnO nanotubes by template-assisted sol-gel route. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	37
206	High-yield synthesis of hollow boron nitride nano-polyhedrons. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8694		37
205	Synthesis of novel ZnO/ZnAl <sub>2</sub> O <sub>4</sub> multi co-centric nanotubes and their long-term stability in photocatalytic application. <i>RSC Advances</i> , <b>2016</b> , 6, 103692-103699	3.7	36
204	Enhanced Ionic Transport Mechanism by Gramicidin A Confined Inside Nanopores Tuned by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 15306-15315	3.8	36
203	Ordered mesoporous silicoboron carbonitride ceramics from boron-modified polysilazanes: Polymer synthesis, processing and properties. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 140, 40-50	5.3	36
202	Synthesis and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles confined within mesoporous silica. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 135, 137-142	5.3	36
201	Preparation of BN Microtubes/Nanotubes with a Unique Chemical Process. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18325-18330	3.8	35
200	Ordered mesoporous polymer-derived ceramics and their processing into hierarchically porous boron nitride and silicoboron carbonitride monoliths. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 1923-1931	3.6	34
199	Preparation, Characterization, and Surface Modification of Periodic Mesoporous Silicon-Aluminum-Carbon-Nitrogen Frameworks. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3957-3970	9.6	34
198	Sodium hydrazinidoborane: a chemical hydrogen-storage material. <i>ChemSusChem</i> , <b>2013</b> , 6, 667-73	8.3	34
197	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> , <b>2019</b> , 257, 117917	21.8	33
196	More reactive cobalt chloride in the hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9444-9449	6.7	33
195	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , <b>2021</b> , 118, 111525	8.3	33
194	Facile Synthesis and High Rate Capability of Silicon Carbonitride/Boron Nitride Composite with a Sheet-Like Morphology. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2783-2791	3.8	32
193	Boron nitride ceramics from molecular precursors: synthesis, properties and applications. <i>Dalton Transactions</i> , <b>2016</b> , 45, 861-73	4.3	32
192	Development of novel h-BNNS/PVA porous membranes via Pickering emulsion templating. <i>Green Chemistry</i> , <b>2018</b> , 20, 4319-4329	10	32
191	Anchored cobalt film as stable supported catalyst for hydrolysis of sodium borohydride for chemical hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14527-14533	6.7	32



190	Co-Al <sub>2</sub> O <sub>3</sub> -Cu as shaped catalyst in NaBH <sub>4</sub> hydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6583-6591	6.7	32
189	Metal chloride-doped ammonia borane thermolysis: Positive effect on induction period as well as hydrogen and borazine release. <i>Thermochimica Acta</i> , <b>2010</b> , 509, 81-86	2.9	32
188	Design of a Series of Preceramic B-Tri(methylamino)borazine-Based Polymers as Fiber Precursors: Architecture, Thermal Behavior, and Melt-Spinnability <i>Macromolecules</i> , <b>2007</b> , 40, 1018-1027	5.5	32
187	Evolution of structural features and mechanical properties during the conversion of poly[(methylamino)borazine] fibers into boron nitride fibers. <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 1803-1810	3.3	32
186	Borylborazines as new precursors for boron nitride fibres. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 2809-2814	2.3	32
185	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> , <b>2019</b> , 9,	5.4	31
184	Monodisperse platinum nanoparticles supported on highly ordered mesoporous silicon nitride nanoblocks: superior catalytic activity for hydrogen generation from sodium borohydride. <i>RSC Advances</i> , <b>2015</b> , 5, 58943-58951	3.7	31
183	Ammonia borane decomposition in the presence of cobalt halides. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 12955-12964	6.7	31
182	High purity boron nitride thin films prepared by the PDCs route. <i>Surface and Coatings Technology</i> , <b>2007</b> , 201, 7822-7828	4.4	31
181	Silicon-Boron-Carbon-Nitrogen monoliths with high, interconnected and hierarchical porosity. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10991	13	30
180	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> , <b>2017</b> , 23, 832-845	4.8	30
179	Iron-based 1D nanostructures by electrospinning process. <i>Nanotechnology</i> , <b>2010</b> , 21, 125701	3.4	30
178	Synthesis, characterization and optical properties of pi-conjugated systems incorporating closo-dodecaborate clusters: new potential candidates for two-photon absorption processes. <i>Dalton Transactions</i> , <b>2005</b> , 3065-71	4.3	30
177	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> , <b>2006</b> , 89, 42-49	3.8	30
176	Au-covered hollow urchin-like ZnO nanostructures for surface-enhanced Raman scattering sensing. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 15066-15073	7.1	30
175	Natural payload delivery of the doxorubicin anticancer drug from boron nitride oxide nanosheets. <i>Applied Surface Science</i> , <b>2019</b> , 475, 666-675	6.7	30
174	Mechanical properties of boron nitride thin films prepared by atomic layer deposition. <i>CrystEngComm</i> , <b>2017</b> , 19, 6089-6094	3.3	29
173	Overview of Protein-Based Biopolymers for Biomedical Application. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1900126	2.6	29

172	ALD thin ZnO layer as an active medium in a fiber-optic Fabry-Pérot interferometer. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 221, 88-94	3.9	29
171	Design of a Series of Pre-ceramic B-Tri(methylamino)borazine-Based Polymers as Fiber Precursors: Shear Rheology Investigations. <i>Macromolecules</i> , <b>2007</b> , 40, 1028-1034	5.5	29
170	Dynamics of polymer nanoparticles through a single artificial nanopore with a high-aspect-ratio. <i>Soft Matter</i> , <b>2014</b> , 10, 8413-9	3.6	28
169	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> , <b>2016</b> , 41, 15462-15470	6.7	28
168	Preparation of boron nitride-based coatings on metallic substrates via infrared irradiation of dip-coated polyborazylene. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2671		27
167	Crystallinity, Crystalline Quality, and Microstructural Ordering in Boron Nitride Fibers. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 1607-1614	3.8	27
166	Synthesis, characterization and optical power limiting behaviour of phenylazo- and 4-nitrophenylazo-tetrahydroxytetrahiacalix[4]arene. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 3014-3017		27
165	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124326	14.7	27
164	Lithium Hydrazinidoborane: A Polymorphic Material with Potential for Chemical Hydrogen Storage. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3249-3255	9.6	26
163	Bimetallic nickel-based nanocatalysts for hydrogen generation from aqueous hydrazine borane: Investigation of iron, cobalt and palladium as the second metal. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 16919-16926	6.7	26
162	Ammonia borane thermolytic decomposition in the presence of metal (II) chlorides. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 6749-6755	6.7	26
161	Engineering of silicon-based ceramic fibers: Novel SiTaC(O) ceramic fibers prepared from polytantalosilane. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 7086-7091	5.3	26
160	Silica, carbon and boron nitride monoliths with hierarchical porosity prepared by spark plasma sintering process. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 111, 643-648	5.3	26
159	Synthesis and X-ray structural characterisation of the tetramethylene oxonium derivative of the hydrodecaborate anion. A versatile route for derivative chemistry of [B <sub>10</sub> H <sub>10</sub> ] <sup>2-</sup> . <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 2581-2585	2.3	26
158	Study of the dispersion of VOCs emitted by a municipal solid waste landfill. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 1926-1931	5.3	25
157	Synthesis of boron nitride with a cubic mesostructure. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 92, 286-291	5.3	25
156	Boron nitride matrices and coatings from boryl borazine molecular precursors. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 2605-2610		25
155	Nanostructured boron nitride-based materials: synthesis and applications. <i>Materials Today Advances</i> , <b>2020</b> , 8, 100107	7.4	25

154	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> , <b>2016</b> , 36, 3671-3679	6	25
153	Nanowires with controlled porosity for hydrogen production. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2133-2138	13	24
152	Synthesis, characterization, and UV-vis linear absorption of centrosymmetric pi-systems incorporating closo-dodecaborate clusters. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 8743-8	5.1	24
151	Synthesis of [B <sub>12</sub> H <sub>12</sub> ] <sup>2-</sup> based extractants and their application for the treatment of nuclear wastes. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 657, 83-90	2.3	24
150	Inverse Pickering Emulsion Stabilized by Exfoliated Hexagonal-Boron Nitride (h-BN). <i>Langmuir</i> , <b>2017</b> , 33, 13394-13400	4	23
149	A bottom-up approach to prepare cobalt-based bimetallic supported catalysts for hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 5627-5637	6.7	23
148	A new polyborazine-based route to boron nitride fibres. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2609		23
147	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> , <b>1993</b> , 29-31		23
146	Soluble and volatile barium aryloxide derivatives: Synthesis and molecular structure of Ba <sub>5</sub> (B-OH)(B-OAR) <sub>4</sub> (B-OAR) <sub>4</sub> (OAr)(THF) <sub>5</sub> , [Ba(μ, μ-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, μ-H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OH) (B-OH)(B-OAR) (HOAr)] <sub>2</sub> [Ar = C <sub>6</sub> H <sub>3</sub> But <sub>2-3,5</sub> ; dpm = ButC(O)CHC(O)But]. <i>Polyhedron</i> , <b>1993</b> , 12, 209-219	2.7	23
145	Synthesis and x-ray crystal structure of a mononuclear aryloxide-crown ether of barium: [Ba(OAr) <sub>2</sub> (18-crown-6)] · (2ArOH)(18-crown-6) (Ar = C <sub>6</sub> H <sub>3</sub> But <sub>2-3,5</sub> ). <i>Polyhedron</i> , <b>1993</b> , 12, 267-271	2.7	23
144	Fluorescence Quenching of Sulfo-rhodamine Dye over Graphene Oxide and Boron Nitride Nanosheets. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 2125-2130	2.3	22
143	Optical properties of ultrathin Al <sub>2</sub> O <sub>3</sub> /ZnO nanolaminates. <i>Thin Solid Films</i> , <b>2015</b> , 594, 96-100	2.2	22
142	Cyclic Dehydrogenation(Re)Hydrogenation with Hydrogen-Storage Materials: An Overview. <i>Energy Technology</i> , <b>2015</b> , 3, 100-117	3.5	22
141	Rayleigh instability induced SiC/SiO <sub>2</sub> necklace like nanostructures. <i>CrystEngComm</i> , <b>2012</b> , 14, 7744	3.3	22
140	Cobalt-supported alumina as catalytic film prepared by electrophoretic deposition for hydrogen release applications. <i>Applied Surface Science</i> , <b>2010</b> , 256, 7684-7691	6.7	22
139	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> ] <sup>2-</sup> . <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 2787-2789	2.3	22
138	Conversion of B(NHCH <sub>3</sub> ) <sub>3</sub> into boron nitride and polyborazine fibres and tubular BN structures derived therefrom. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 757-761		22
137	Design of graphene oxide/gelatin electrospun nanocomposite fibers for tissue engineering applications. <i>RSC Advances</i> , <b>2016</b> , 6, 109150-109156	3.7	21

136	Hybrid silica coatings on polycarbonate: enhanced properties. <i>Journal of Sol-Gel Science and Technology</i> , <b>2013</b> , 65, 52-60	2.3	21
135	From soil to lab: Utilization of clays as catalyst supports in hydrogen generation from sodium borohydride fuel. <i>Fuel</i> , <b>2011</b> , 90, 1919-1926	7.1	21
134	Atomic Layer Deposition of zinc oxide for solar cell applications. <i>Superlattices and Microstructures</i> , <b>2014</b> , 75, 477-484	2.8	20
133	Highly textured boron/nitrogen co-doped TiO <sub>2</sub> with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144419	6.7	20
132	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9434-9441	3.8	20
131	Porous Gelatin Membrane Obtained from Pickering Emulsions Stabilized by Graphene Oxide. <i>Langmuir</i> , <b>2018</b> , 34, 1542-1549	4	19
130	Synthesis of polystyrene coated SiC nanowires as fillers in a polyurethane matrix for electromechanical conversion. <i>Nanotechnology</i> , <b>2010</b> , 21, 145610	3.4	19
129	Urchin-inspired ZnO-TiO <sub>2</sub> core-shell as building blocks for dye sensitized solar cells. <i>Materials and Design</i> , <b>2017</b> , 126, 314-321	8.1	18
128	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 1865-1874	4.1	18
127	Nanostructured Boron Nitride: From Molecular Design to Hydrogen Storage Application. <i>Inorganics</i> , <b>2014</b> , 2, 396-409	2.9	18
126	Polyaniline/Titania solid electrolyte for new generation photovoltaic single-layer devices. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 1040-1049	4.4	18
125	Evaluation of the processability of boron-containing organosilazane polymers based on shear rheology. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 248-257	2.9	18
124	Direct Synthesis of Periodic Mesoporous SilicoBoron CarboNitride Frameworks via the Nanocasting from Ordered Mesoporous Silica with Boron-Modified Polycarbosilazane. <i>Advanced Engineering Materials</i> , <b>2013</b> , 15, 134-140	3.5	18
123	A simple preparation method of sodium amidoborane, highly efficient derivative of ammonia borane dehydrogenating at low temperature. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7423-7430	6.7	18
122	Boron nitride multiwall nanotubes decorated with BN nanosheets. <i>CrystEngComm</i> , <b>2011</b> , 13, 6526	3.3	18
121	Elaboration and characterization of magnetic nanocomposite fibers by electrospinning. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 2735-2740	2.3	18
120	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> , <b>2005</b> , 690, 2745-2749	2.3	18
119	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> , <b>2015</b> , 286, 10-17	8.9	17

118	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> , <b>2013</b> , 33, 2979-2992	6	17
117	Processing, Mechanical Characterization, and Alkali Resistance of SiliconBoronOxycarbide (SiBOC) Glass Fibers. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 3143-3149	3.8	17
116	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> , <b>2018</b> , 236-237, 139-146	3.1	17
115	Robust 3D Boron Nitride Nanoscaffolds for Remarkable Hydrogen Storage Capacity from Ammonia Borane. <i>Energy Technology</i> , <b>2018</b> , 6, 570-577	3.5	16
114	Tunable properties of GO-doped CoFe <sub>2</sub> O <sub>4</sub> nanofibers elaborated by electrospinning. <i>RSC Advances</i> , <b>2015</b> , 5, 97849-97854	3.7	16
113	Shaping potentialities of aluminum nitride polymeric precursors. <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 857-861	6	16
112	Study of the 3C-SiC nucleation from a liquid phase on a C face 6H-SiC substrate. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 2385-2390	1.6	16
111	Boron Nitride as a Novel Support for Highly Stable Palladium Nanocatalysts by Atomic Layer Deposition. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	16
110	Molecular-Level Processing of Si-(B)-C Materials with Tailored Nano/Microstructures. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 17103-17117	4.8	15
109	Analysis of ultraviolet photo-response of ZnO nanostructures prepared by electrodeposition and atomic layer deposition. <i>Applied Surface Science</i> , <b>2018</b> , 444, 253-259	6.7	15
108	CNT-Encapsulated $\beta$ -SiC Nanocrystals: Enhanced Migration by Confinement in Carbon Channels. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 1891-1895	3.5	15
107	Large-scale preparation of faceted Si <sub>3</sub> N <sub>4</sub> nanorods from $\beta$ -SiC nanowires. <i>Nanotechnology</i> , <b>2007</b> , 18, 335305	3.4	15
106	Texture, structure and chemistry of a boron nitride fibre studied by high resolution and analytical TEM. <i>Journal of the European Ceramic Society</i> , <b>2002</b> , 22, 2415-2425	6	15
105	Key study on the potential of hydrazine bisborane for solid- and liquid-state chemical hydrogen storage. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 4574-83	5.1	14
104	Design of CoFe <sub>2</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> nanofibers with tunable morphology by Electrospinning. <i>Materials Letters</i> , <b>2015</b> , 140, 27-30	3.3	14
103	Gaining insight into the catalytic dehydrogenation of hydrazine borane in water. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15983-15991	6.7	14
102	Ultrathin polycrystalline hematite and goethite-hematite core-shell nanorods. <i>Langmuir</i> , <b>2009</b> , 25, 2551-3	4	14
101	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> , <b>1997</b> , 133, 164-168	3.3	14

100	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. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123702	14.7	14
99	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. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 8346-57	4.8	14
98	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> , <b>2018</b> , 343, 24-29	4.4	14
97	Open-celled silicon carbide foams with high porosity from boron-modified polycarbosilanes. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 5114-5122	6	13
96	High-resolution 15N solid-state NMR investigations on borazine-based precursors. <i>Applied Organometallic Chemistry</i> , <b>2004</b> , 18, 227-232	3.1	13
95	THERMAL OLIGOMERIZATION OF UNSYMMETRICALLY B-TRISUBSTITUTED BORAZINES. <i>Main Group Metal Chemistry</i> , <b>1999</b> , 22,	1.6	13
94	Polyol-Based Synthesis of Praseodymium Oxide Nanoparticles. <i>Nanomaterials and Nanotechnology</i> , <b>2014</b> , 4, 7	2.9	12
93	Metal hydrideHydrazine borane: Towards hydrazinidoboranes or composites as hydrogen carriers. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 14875-14884	6.7	12
92	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> ]. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 4830-5	5.1	12
91	Fluorinated cobalt for catalyzing hydrogen generation from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 5417-5421	6.7	12
90	Influence of the thermal process of carbon template removal in the mesoporous boron nitride synthesis. <i>Journal of Porous Materials</i> , <b>2008</b> , 15, 13-20	2.4	12
89	A new barium complex based on Ba(dpm) <sub>2</sub> Ba <sub>6</sub> (dpm) <sub>10</sub> (H <sub>2</sub> O) <sub>6</sub> (O <sub>2</sub> ). An unexpected barium peroxo-diketonate structurally characterized. <i>Polyhedron</i> , <b>1995</b> , 14, 297-300	2.7	12
88	Electrospun fibers in regenerative tissue engineering and drug delivery. <i>Pure and Applied Chemistry</i> , <b>2017</b> , 89, 1799-1808	2.1	11
87	Design of Multilayers of Urchin-like ZnO Nanowires Coated with TiO <sub>2</sub> Nanostructures for Dye-Sensitized Solar Cells. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3705-3714	5.6	11
86	Thermal behaviour of a series of poly[B-(methylamino)borazine] for the preparation of boron nitride fibers. <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 851-855	6	11
85	Boron nitride thin fibres obtained from a new copolymer borazineTri(methylamino)borazine precursor. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 657, 107-114	2.3	11
84	By-Product Carrying Humidified Hydrogen: An Underestimated Issue in the Hydrolysis of Sodium Borohydride. <i>ChemSusChem</i> , <b>2016</b> , 9, 1777-80	8.3	11
83	11B MAS NMR Study of the Thermolytic Dehydrocoupling of Two Ammonia Boranes upon the Release of One Equivalent of H <sub>2</sub> at Isothermal Conditions. <i>ChemistrySelect</i> , <b>2017</b> , 2, 9396-9401	1.8	10



82	Pure hydrogen-generating doped sodium hydrazinidoborane. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 7475-7482	6.7	10
81	Reaction intermediate/product-induced segregation in cobalt-copper as the catalyst for hydrogen generation from the hydrolysis of sodium borohydride. <i>RSC Advances</i> , <b>2016</b> , 6, 102498-102503	3.7	10
80	Si <sub>3</sub> N <sub>4</sub> /BN composites obtained from aminoboranes as BN precursors and sintering aids. <i>Journal of the European Ceramic Society</i> , <b>1997</b> , 17, 1911-1915	6	10
79	Complete characterisation of BN fibres obtained from a new polyborylborazine. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 137-141	6	10
78	Influence of Molecular Precursor Structure on the Crystallinity of Boron Nitride. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 154, 137-140	3.3	10
77	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> , <b>2019</b> , 18, 2921-2930	4.2	10
76	Improved electrochemical conversion of CO to multicarbon products by using molecular doping. <i>Nature Communications</i> , <b>2021</b> , 12, 7210	17.4	10
75	Experimental and simulation studies of unusual current blockade induced by translocation of small oxidized PEG through a single nanopore. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 17883-92	3.6	9
74	Hydrazine borane-induced destabilization of ammonia borane, and vice versa. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 278, 158-62	12.8	9
73	Sol-gel Nanohybrid Materials Incorporating Functional Thiacalixarenes for Non-Linear Optical Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 771, 7161		9
72	Atomic layer deposition of biobased nanostructured interfaces for energy, environmental and health applications. <i>Pure and Applied Chemistry</i> , <b>2015</b> , 87, 751-758	2.1	8
71	Borohydride-induced destabilization of hydrazine borane. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 9321-9329	6.7	8
70	A new bimetallic barium yttrium oxo alkoxide Ba <sub>2</sub> Y <sub>4</sub> (B-O)(B-OEt) <sub>6</sub> (B-OH) <sub>2</sub> (dpm) <sub>6</sub> ·2EtOH: structural characterization and thermal behavior. <i>Inorganica Chimica Acta</i> , <b>1997</b> , 255, 289-294	2.7	8
69	Rheological Behavior of Poly[(B-alkylamino)borazine] in a Fiber Spinning Process. <i>Soft Materials</i> , <b>2007</b> , 4, 123-142	1.7	8
68	Preparation of SiC nanowires and SiC@BN nanocables. <i>European Physical Journal Special Topics</i> , <b>2005</b> , 124, 99-102		8
67	In situ thermodiffraction to monitor synthesis and thermolysis of hydrazine borane-based materials. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 659, 210-216	5.7	7
66	On the Use of MOFs and ALD Layers as Nanomembranes for the Enhancement of Gas Sensors Selectivity. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	7
65	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> , <b>2013</b> , 567, 100-106		7

64	Reversible multi polyelectrolyte layers on gold nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	7
63	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> , <b>2009</b> , 29, 863-867	6	7
62	Synthesis, and two photon absorption properties of 7,7'-(iminundecahydro-closo-dodecaborate)-9,9'-(dihexyl)-2,2'-bifluorene. <i>Chemical Communications</i> , <b>2008</b> , 3765-7	5.8	7
61	Preparation of SiBCN Microtubes from Melt-Spinnable Polymers. <i>Key Engineering Materials</i> , <b>2008</b> , 368-372, 926-928	0.4	7
60	Ultra high sensitive detection of mechanical resonances of nanowires by field emission microscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2007</b> , 204, 1645-1652	1.6	7
59	Condensation of borazinic precursors for mesoporous boron nitride synthesis by carbon nanocasting. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 26-34	2.5	7
58	In situ Synchrotron X-ray Thermodiffraction of Boranes. <i>Crystals</i> , <b>2016</b> , 6, 16	2.3	7
57	Theoretical calculation of the low-lying electronic states of the molecule BN. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2015</b> , 151, 58-66	2.1	6
56	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> , <b>2014</b> , 11, 1505-1508		6
55	Crystal structure of (2, 2-dioxotetramethylsiloxane)(2, 2-dioxohexamethyltrisiloxane)tetrakis(2,2,6,6-tetramethylheptane-3,5-dionato-O,O?) tris(pyridine) barium diyttrium, C <sub>69</sub> H <sub>121</sub> BaN <sub>3</sub> O <sub>15</sub> Si <sub>5</sub> Y <sub>2</sub> . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>1994</b> , 209, 282-284	1	6
54	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> , <b>2016</b> , 4, 177-187		6
53	Investigation of polymer-derived Si-(B)-C-N ceramic/reduced graphene oxide composite systems as active catalysts towards the hydrogen evolution reaction. <i>Scientific Reports</i> , <b>2020</b> , 10, 22003	4.9	6
52	Pickering emulsions stabilized with two-dimensional (2D) materials: A comparative study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 563, 183-192	5.1	6
51	Electrospun Nanofibers for Drug Delivery in Regenerative Medicine <b>2019</b> , 595-625		6
50	Chemistry of a series of aluminum-modified polysilazanes: Synthesis, pyrolysis behaviour and microstructural evolution. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 183-194	6	6
49	Evolution of 3C-SiC islands nucleated from a liquid phase on Si face SiC substrates. <i>Thin Solid Films</i> , <b>2010</b> , 518, 4234-4241	2.2	5
48	Effects of p-doping on the thermal sensitivity of individual Si nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 193105	3.4	5
47	The Interaction of the [B <sub>10</sub> H <sub>10</sub> ] <sup>2-</sup> Cage with Lewis Acids and the Formation of Decaborane Derivatives by Cage-Opening Reactions. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1997</b> , 62, 1273-1278		5

46	Sacrificial mold-assisted 3D printing of stable biocompatible gelatin scaffolds. <i>Bioprinting</i> , <b>2021</b> , 22, e00140	1.40	5
45	Polyborosilazane-Derived Ceramic Fibers in the Si-B-C-N Quaternary System for High-Temperature Applications	35-42	
44	Shaping of Nanostructured Materials or Coatings through Spark Plasma Sintering. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 24-30	0.4	4
43	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> , <b>2006</b> , 50, 9-16	0.1	4
42	High Surface and High Nanoporosity Boron Nitride Adapted to Hydrogen Sequestration. <i>Materials Science Forum</i> , <b>2007</b> , 555, 355-362	0.4	4
41	Correlation between structural features and mechanical properties of boron nitride fibres derived from alkylaminoborazines. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 157-162	6	4
40	Formation mechanism of polyaniline self-assembled needles and urchin-like structures assisted by magnesium oxide. <i>Polymer International</i> , <b>2015</b> , 64, 505-512	3.3	3
39	Boron Nitride Nanoparticles: One-Step Synthesis from Single-Source Preceramic Precursors. <i>Advances in Science and Technology</i> , <b>2010</b> , 62, 1-7	0.1	3
38	Preparation of nanostructured boron nitride with borazinic precursor. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 279-286	1.8	3
37	Synthesis and molecular structure of 2,4,6-tri[bis(diisopropylamino)boryl(methylamino)]borazine, [(NiPr <sub>2</sub> ) <sub>2</sub> B(Me)N] <sub>3</sub> B <sub>3</sub> N <sub>3</sub> H <sub>3</sub> . <i>Applied Organometallic Chemistry</i> , <b>2003</b> , 17, 68-72	3.1	3
36	Enhancement of Podocyte Attachment on Polyacrylamide Hydrogels with Gelatin-Based Polymers.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 7531-7539	4.1	2
35	Spectres De Masse FAB En Mode Positif De Composes Moleculaires Oxygenes Du Baryum. <i>Bulletin Des Sociétés Chimiques Belges</i> , <b>2010</b> , 101, 689-695		2
34	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> , <b>2006</b> , 45, 726-734	0.1	2
33	The Structure of the Pyridine Complex of p-tetrakis(phenylazo)-tetra-hydroxythiacalix[4]arene. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2003</b> , 46, 15-17		2
32	Supported nickel catalysts for the decomposition of hydrazine borane N <sub>2</sub> H <sub>4</sub> BH <sub>3</sub> . <i>Advances in Energy Research</i> , <b>2013</b> , 1, 1-12		2
31	Biomimetic electro-oxidation of alkyl sulfides from exfoliated molybdenum disulfide nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25053-25060	13	2
30	Synthesis and Characterization of Cubic Silicon Carbide (SiC) and Trigonal Silicon Nitride (Si <sub>3</sub> N <sub>4</sub> ) Nanowires. <i>Ceramic Engineering and Science Proceedings</i> , 341-348	0.1	2
29	Superior efficiency of BN/Ce <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanofibers for photocatalytic hydrogen generation reactions. <i>Applied Surface Science</i> , <b>2022</b> , 153438	6.7	2

28	Borazine Based Preceramic Polymers for Advanced BN Materials <b>2008</b> , 351-371		1
27	Dots Formation by CVD in the SiC-Si Hetero-System. <i>Materials Science Forum</i> , <b>2008</b> , 600-603, 571-574	0.4	1
26	Hybrid materials for Optical Limiting. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 847, 274		1
25	Design and Manufacturing of Si-Based Non-Oxide Cellular Ceramic Structures through Indirect 3D Printing.. <i>Materials</i> , <b>2022</b> , 15,	3.5	1
24	Elaboration of h-Bn Sheathed SiC Nanocables. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 772, 331		1
23	Porous Gelatin Membranes Obtained from Pickering Emulsions Stabilized with h-BNNS: Application for Polyelectrolyte-Enhanced Ultrafiltration. <i>Membranes</i> , <b>2020</b> , 10,	3.8	1
22	Screening and scale-up of cerium oxide-based binary/ternary systems as oxidation catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 27426-27433	3.7	1
21	Nano Fibrous Scaffolds for Tissue Engineering Application <b>2018</b> , 1-28		0
20	Hierarchically Nanostructured Porous Boron Nitride <b>2014</b> , 267-290		0
19	Boron- and Nitrogen-Containing Polymers <b>2006</b> , 149-173		0
18	Theoretical calculation of the electronic structure of ZnO molecule. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 869, 012012	0.3	
17	Nanofibrous Scaffolds for Tissue Engineering Application <b>2019</b> , 665-691		
16	Poly[(Alkylamino)Borazine]-Derived Boron Nitride Fibers for Composite Applications. <i>Ceramic Transactions</i> , <b>2012</b> , 1-10	0.1	
15	Metal Oxides (such as Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> ) as Catalyst Supports for Hydrogen Release by Hydrolysis of Sodium Borohydride NaBH <sub>4</sub> . <i>Advances in Science and Technology</i> , <b>2010</b> , 65, 209-214	0.1	
14	Cobalt-Supported Clay as Catalytic Film Prepared by Electrophoretic Deposition for Hydrogen Release Applications. <i>Advances in Science and Technology</i> , <b>2010</b> , 65, 203-208	0.1	
13	Dye-Sensitized Solar Cells Based on a Natural Low Cost Halochromic Sensitizer. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1286, 33		
12	Self-Assembled Nano-Needles of Polyaniline, Efficient Structures in Controlling Electrical Conductivity. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1312, 1		
11	Microtextural and Microstructural Evolution in Poly[(Alkylamino)Borazine]-Derived Fibers During Their Conversion Into Boron Nitride Fibers43-50		

- 10 Boron- and Nitrogen-Containing Polymers for Advanced Materials **2006**, 103-120
- 9 Synthesis conditions of ordered mesostructured boron nitride prepared from borazinic precursors and CMK-3 carbon template. *Materials Research Society Symposia Proceedings*, **2005**, 876, 1
- 8 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*, 52093<sup>2,9</sup>
- 7 Monolithes de silice et de carbone «porosités hiérarchisées» obtenus par frittage SPS. *Materiaux Et Techniques*, **2007**, 95, 251-258 0.6
- 6 Synthesis and Characterization of Cubic Silicon Carbide (SiC) and Trigonal Silicon Nitride (Si<sub>3</sub>N<sub>4</sub>) Nanowires. *Ceramic Engineering and Science Proceedings*, 81-88 0.1
- 5 Synthesis and Characterization of Cubic Silicon Carbide (SiC) and Trigonal Silicon Nitride (Si<sub>3</sub>N<sub>4</sub>) Nanowires 315-322
- 4 Synthesis of Si-Based Nanowires. *Ceramic Transactions*, 129-137 0.1
- 3 High-Performance Boron Nitride Fibers from Polyalkyl-Aminoborazines. *Ceramic Transactions*, 151-164 0.1
- 2 Synthesis of Silicon Carbide Nanowires from a Mixture of CaCO<sub>3</sub> and Si Powders. *Ceramic Transactions*, 149-157 0.1
- 1 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