

Nicolas Brun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

3,080
citations

26
h-index

55
g-index

68
ext. papers

3,376
ext. citations

10.9
avg, IF

5.14
L-index

#	Paper	IF	Citations
65	Ionic guest in ionic host: ionosilica ionogel composites via ionic liquid confinement in ionosilica supports. <i>Materials Chemistry Frontiers</i> , 2022 , 6, 939-947	7.8	1
64	When graphene meets ionic liquids: a good match for the design of functional materials. <i>Nanoscale</i> , 2021 , 13, 2750-2779	7.7	9
63	Production of formate from CO ₂ gas under ambient conditions: towards flow-through enzyme reactors. <i>Green Chemistry</i> , 2020 , 22, 3727-3733	10	6
62	Ionothermal carbonization in [Bmim][FeCl ₄]: an opportunity for the valorization of raw lignocellulosic agrowastes into advanced porous carbons for CO ₂ capture. <i>Green Chemistry</i> , 2020 , 22, 5423-5436	10	7
61	Carbonization of polysaccharides in FeCl ₃ /BmimCl ionic liquids: Breaking the capacity barrier of carbon negative electrodes in lithium ion batteries. <i>Journal of Power Sources</i> , 2020 , 474, 228575	8.9	1
60	TiO Suboxide Phases in TiO/C Nanocomposites Engineered by Non-hydrolytic Sol-Gel with Enhanced Electrocatalytic Properties. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
59	Green electrode processing using a seaweed-derived mesoporous carbon additive and binder for LiMn ₂ O ₄ and LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ lithium ion battery electrodes. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 450-456	5.8	9
58	Dehydration of Alginic Acid Cryogel by TiCl ₄ vapor: Direct Access to Mesoporous TiO @C Nanocomposites and Their Performance in Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 2660-2670	8.3	4
57	Alloys to Replace Mg Anodes in Efficient and Practical Mg-Ion/Sulfur Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2040-2044	20.1	32
56	Self-Limited Grafting of Sub-Monolayers via Diels-Alder Reaction on Glassy Carbon Electrodes: An Electrochemical Insight. <i>ACS Omega</i> , 2019 , 4, 20540-20546	3.9	6
55	Cobalt nanoparticles embedded into polydimethylsiloxane-grafted cocoa shell: functional agrowaste for CO ₂ capture. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3942-3951	2.1	
54	Ethers as Oxygen Donor and Carbon Source in Non-hydrolytic Sol-Gel: One-Pot, Atom-Economic Synthesis of Mesoporous TiO ₂ -Carbon Nanocomposites. <i>Chemistry - A European Journal</i> , 2018 , 24, 4982-4990	4.8	8
53	Rational design of novel water-soluble ampholytic cellulose derivatives. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 363-372	7.9	19
52	New approach for immobilization of 3-aminopropyltrimethoxysilane and TiO ₂ nanoparticles into cellulose for BJ1 skin cells proliferation. <i>Carbohydrate Polymers</i> , 2018 , 199, 193-204	10.3	11
51	Alginic acid-derived mesoporous carbonaceous materials (Starbon [®]) as negative electrodes for lithium ion batteries: Importance of porosity and electronic conductivity. <i>Journal of Power Sources</i> , 2018 , 406, 18-25	8.9	5
50	Alginic acid aquagel as a template and carbon source in the synthesis of LiTiO/C nanocomposites for application as anodes in Li-ion batteries.. <i>RSC Advances</i> , 2018 , 8, 32558-32564	3.7	6
49	Alginic acid-derived mesoporous carbon (Starbon [®]) as template and reducing agent for the hydrothermal synthesis of mesoporous LiMn ₂ O ₄ grafted with carbonaceous species. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14392-14399	13	7

48	Chemical modification of the cocoa shell surface using diazonium salts. <i>Journal of Colloid and Interface Science</i> , 2017 , 494, 92-97	9.3	22
47	Expanding the biomass derived chemical space. <i>Chemical Science</i> , 2017 , 8, 4724-4738	9.4	74
46	Fundamentals of Enzymatic Electrochemical Systems 2017 , 3-50		1
45	Sustainable polysaccharide-derived mesoporous carbons (Starbon [®]) as additives in lithium-ion batteries negative electrodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24380-24387	13	14
44	Architectures of Enzyme Electrodes Using Redox Mediators 2017 , 173-213		1
43	Monolithic acidic catalysts for the dehydration of xylose into furfural. <i>Catalysis Communications</i> , 2016 , 87, 112-115	3.2	22
42	Lithium insertion properties of mesoporous nanocrystalline TiO ₂ and TiO ₂ /TiO _{2-x} microspheres prepared by non-hydrolytic sol-gel. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 79, 270-278	2.3	9
41	Nanocomposites with both structural and porous hierarchy synthesized from Pickering emulsions. <i>New Journal of Chemistry</i> , 2016 , 40, 4344-4350	3.6	3
40	Microcellular Electrode Material for Microbial Bioelectrochemical Systems Synthesized by Hydrothermal Carbonization of Biomass Derived Precursors. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2508-2516	8.3	17
39	Hierarchical porous silica monoliths: A novel class of microreactors for process intensification in catalysis and adsorption. <i>Comptes Rendus Chimie</i> , 2016 , 19, 231-247	2.7	76
38	Multiwalled Carbon Nanotube/Cellulose Composite: From Aqueous Dispersions to Pickering Emulsions. <i>Langmuir</i> , 2016 , 32, 3907-16	4	24
37	Synthesis of robust hierarchically porous zirconium phosphate monolith for efficient ion adsorption. <i>New Journal of Chemistry</i> , 2015 , 39, 2444-2450	3.6	42
36	Sustainable carbon materials. <i>Chemical Society Reviews</i> , 2015 , 44, 250-90	58.5	826
35	Always look on the "light" side of life: sustainable carbon aerogels. <i>ChemSusChem</i> , 2014 , 7, 670-89	8.3	128
34	Biosourced nitrogen-doped microcellular carbon monoliths. <i>ChemSusChem</i> , 2014 , 7, 397-401	8.3	10
33	Carbohydrate-Derived Nanoarchitectures: On a Synergistic Effect Toward an Improved Performance in Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 126-129	8.3	27
32	Integrative Chemistry-Based Generation of Novel Three Dimensional Macrocellular Carbonaceous Biofuel Cell. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1641, 1		
31	Original design of nitrogen-doped carbon aerogels from sustainable precursors: application as metal-free oxygen reduction catalysts. <i>Green Chemistry</i> , 2013 , 15, 2514	10	123

30	Hydrothermal synthesis of highly porous carbon monoliths from carbohydrates and phloroglucinol. <i>RSC Advances</i> , 2013 , 3, 17088	3.7	35
29	Selecting for function: solution synthesis of magnetic nanopropellers. <i>Nano Letters</i> , 2013 , 13, 5373-8	11.5	51
28	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithium-sulfur batteries. <i>Carbon</i> , 2013 , 61, 245-253	10.4	115
27	Porous Hydrothermal Carbons 2013 , 37-73		1
26	Chiral supported ionic liquid phase (CSILP) catalysts for greener asymmetric hydrogenation processes. <i>Catalysis Today</i> , 2013 , 200, 63-73	5.3	20
25	Macrocellular Pd@ionic liquid@organo-Si(HIPE) heterogeneous catalysts and their use for Heck coupling reactions. <i>New Journal of Chemistry</i> , 2013 , 37, 157-168	3.6	26
24	Emulsion-templated macroporous carbons synthesized by hydrothermal carbonization and their application for the enzymatic oxidation of glucose. <i>ChemSusChem</i> , 2013 , 6, 701-10	8.3	48
23	A novel three-dimensional macrocellular carbonaceous biofuel cell. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6437-45	3.6	36
22	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6080-7	3.6	156
21	Hydrothermal carbons from hemicellulose-derived aqueous hydrolysis products as electrode materials for supercapacitors. <i>ChemSusChem</i> , 2013 , 6, 374-82	8.3	138
20	Highly Efficient Porous Enzyme-based Carbonaceous Electrodes Obtained Through Integrative Chemistry. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1491, 64		
19	LiBH ₄ @Carbon Micro-Macrocellular Foams: Tuning Hydrogen Release through Varying Microporosity. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1497, 1		0
18	Enzyme-based Biohybrid Foams Designed for Biodiesel Production and Continuous Flow Heterogeneous Catalysis. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1492, 183-188		
17	Design of Hierarchical Porous Carbonaceous Foams from a Dual-Template Approach and Their Use as Electrochemical Capacitor and Li Ion Battery Negative Electrodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1408-1421	3.8	125
16	Enzyme-based biohybrid foams designed for continuous flow heterogeneous catalysis and biodiesel production. <i>Energy and Environmental Science</i> , 2011 , 4, 2840	35.4	48
15	Novel monolith-type boron nitride hierarchical foams obtained through integrative chemistry. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14025		67
14	Hybrid foams, colloids and beyond: from design to applications. <i>Chemical Society Reviews</i> , 2011 , 40, 771-885	88.5	183
13	Porous mediator-free enzyme carbonaceous electrodes obtained through Integrative Chemistry for biofuel cells. <i>Energy and Environmental Science</i> , 2011 , 4, 2097-2106	35.4	80

12	Lipase Immobilized within Novel Silica-based Hybrid Foams: Synthesis, Characterizations and Catalytic Properties. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1272, 1		
11	Hybrid Foams, Colloids and Beyond: Advanced Ceramics through Integrative Chemistry. <i>Advances in Science and Technology</i> , 2010 , 63, 97-106	0.1	1
10	Enzyme-Based Hybrid Macroporous Foams as Highly Efficient Biocatalysts Obtained through Integrative Chemistry. <i>Chemistry of Materials</i> , 2010 , 22, 4555-4562	9.6	63
9	Designing highly efficient enzyme-based carbonaceous foams electrodes for biofuel cells. <i>Energy and Environmental Science</i> , 2010 , 3, 1302	35.4	64
8	Preparation of LiBH ₄ @carbon micro/macrocenular foams: tuning hydrogen release through varying microporosity. <i>Energy and Environmental Science</i> , 2010 , 3, 824	35.4	72
7	Hierarchically Structured Carbonaceous Foams Generation and Their Use as Electrochemical Capacitors and Negative Electrodes for Lithium-ion Batteries Devices. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1266, 40301		
6	Integrative chemistry portfolio toward designing and tuning vanadium oxide macroscopic fibers sensing and mechanical properties. <i>Comptes Rendus Chimie</i> , 2010 , 13, 154-166	2.7	7
5	Hard Macrocenular Silica Si(HIPE) Foams Templating Micro/Macroporous Carbonaceous Monoliths: Applications as Lithium Ion Battery Negative Electrodes and Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2009 , 19, 3136-3145	15.6	91
4	Eu ³⁺ @Organo-Si(HIPE) Macro-Mesocenular Hybrid Foams Generation: Syntheses, Characterizations, and Photonic Properties. <i>Chemistry of Materials</i> , 2008 , 20, 7117-7129	9.6	49
3	Integrative Chemistry Toward Designing Polyvinyl Alcohol/Poly-aniline/Vanadium Oxide Nanocomposite-based Macroscopic Fibers: 1D-Highly Sensitive Alcohol Sensors Bearing Enhanced Toughness. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1135, 31101		
2	First Eu ³⁺ @Organo-Si(HIPE) Hybrid Macro-Mesocenular Foams Generation and Associated Luminescent Properties. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1111, 1		
1	Designing Nanotextured Vanadium Oxide-Based Macroscopic Fibers: Application as Alcoholic Sensors. <i>Chemistry of Materials</i> , 2007 , 19, 3988-3999	9.6	52