

Florian Bouville

List of Publications by Citations

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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.

33 papers	1,830 citations	16 h-index	38 g-index
38 ext. papers	2,297 ext. citations	10.8 avg, IF	5.36 L-index

#	Paper	IF	Citations
33	Strong, tough and stiff bioinspired ceramics from brittle constituents. <i>Nature Materials</i> , 2014 , 13, 508-14	47	550
32	Magnetically aligned graphite electrodes for high-rate performance Li-ion batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	314
31	Magnetically assisted slip casting of bioinspired heterogeneous composites. <i>Nature Materials</i> , 2015 , 14, 1172-9	27	219
30	3D Printing of Materials with Tunable Failure via Bioinspired Mechanical Gradients. <i>Advanced Materials</i> , 2018 , 30, e1705808	24	98
29	Geologically-inspired strong bulk ceramics made with water at room temperature. <i>Nature Communications</i> , 2017 , 8, 14655	17.4	88
28	Role of the polymer phase in the mechanics of nacre-like composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 96, 133-146	5	62
27	Mineral Nano-Interconnectivity Stiffens and Toughens Nacre-like Composite Materials. <i>Advanced Materials</i> , 2017 , 29, 1605039	24	59
26	Transparent and tough bulk composites inspired by nacre. <i>Nature Communications</i> , 2019 , 10, 2794	17.4	57
25	Self-assembly of faceted particles triggered by a moving ice front. <i>Langmuir</i> , 2014 , 30, 8656-63	4	55
24	3D printing of sacrificial templates into hierarchical porous materials. <i>Scientific Reports</i> , 2019 , 9, 409	4.9	51
23	Hierarchical Toughening of Nacre-Like Composites. <i>Advanced Functional Materials</i> , 2019 , 29, 1806800	15.6	47
22	Templated Grain Growth in Macroporous Materials. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1736-1742	3.8	40
21	Quantifying the role of mineral bridges on the fracture resistance of nacre-like composites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12698-12703	11.5	24
20	Iron-based particles for the magnetically-triggered crack healing of bituminous materials. <i>Construction and Building Materials</i> , 2018 , 164, 775-782	6.7	19
19	Lightweight and stiff cellular ceramic structures by ice templating. <i>Journal of Materials Research</i> , 2014 , 29, 175-181	2.5	18
18	Nacre-like ceramic refractories for high temperature applications. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2186-2193	6	16
17	Dispersion of Boron Nitride Powders in Aqueous Suspensions with Cellulose. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 394-398	3.8	14

16	Strong and tough nacre-like aluminas: Process-Structure-Performance relationships and position within the nacre-inspired composite landscape. <i>Journal of Materials Research</i> , 2020 , 35, 1076-1094	2.5	13
15	Design of textured multi-layered structures via magnetically assisted slip casting. <i>Soft Matter</i> , 2019 , 15, 3886-3896	3.6	12
14	Processing of dense bioinspired ceramics with deliberate microstructure. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7253-7263	3.8	11
13	Transparent Nacre-like Composites Toughened through Mineral Bridges. <i>Advanced Functional Materials</i> , 2020 , 30, 2002149	15.6	8
12	Broadband, High-Temperature Stable Reflector for Aerospace Thermal Radiation Protection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9925-9934	9.5	8
11	Porous silicon carbide and aluminum oxide with unidirectional open porosity as model target materials for radioisotope beam production. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 385-388	1.2	7
10	Cold densification and sintering of nanovaterite by pressing with water. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 893-900	6	7
9	Refractory interphase and its role on the mechanical properties of boron containing nacre-like ceramic. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 165-172	6	7
8	Multiscale deformation processes during cold sintering of nanovaterite compacts. <i>Acta Materialia</i> , 2020 , 189, 266-273	8.4	5
7	Tough Bioinspired Composites That Self-Report Damage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27481-27490	9.5	5
6	Freezing of Gelled Suspensions: a Facile Route toward Mesoporous TiO ₂ Particles for High-Capacity Lithium-Ion Electrodes. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6622-6629	5.6	4
5	Tough metal-ceramic composites with multifunctional nacre-like architecture. <i>Scientific Reports</i> , 2021 , 11, 1621	4.9	3
4	Fracture of hierarchical multi-layered bioinspired composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 159, 104750	5	1
3	Transparent materials with stiff and tough hierarchical structures. <i>Open Ceramics</i> , 2021 , 6, 100109	3.3	1
2	3D-TEM microstructure analyses of anisotropic and isotropic aerogels of TiO ₂ nanoparticles 2016 , 1052-1053		0
1	Architected ZnO-Cu particles for facile manufacturing of integrated Li-ion electrodes. <i>Scientific Reports</i> , 2020 , 10, 12401	4.9	