## Florian Bouville

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3126797/publications.pdf

Version: 2024-02-01

34 papers

2,732 citations

361388 20 h-index 34 g-index

38 all docs 38 docs citations

38 times ranked 3684 citing authors

#	Article	IF	CITATIONS
1	Strong, tough and stiff bioinspired ceramics from brittle constituents. Nature Materials, 2014, 13, 508-514.	<b>27.</b> 5	716
2	Magnetically aligned graphite electrodes for high-rate performance Li-ion batteries. Nature Energy, $2016, 1, .$	39.5	480
3	Magnetically assisted slip casting of bioinspired heterogeneous composites. Nature Materials, 2015, 14, 1172-1179.	<b>27.</b> 5	291
4	3D Printing of Materials with Tunable Failure via Bioinspired Mechanical Gradients. Advanced Materials, 2018, 30, e1705808.	21.0	146
5	Geologically-inspired strong bulk ceramics made with water at room temperature. Nature Communications, 2017, 8, 14655.	12.8	138
6	Transparent and tough bulk composites inspired by nacre. Nature Communications, 2019, 10, 2794.	12.8	109
7	Hierarchical Toughening of Nacreâ€Like Composites. Advanced Functional Materials, 2019, 29, 1806800.	14.9	89
8	Mineral Nanoâ€Interconnectivity Stiffens and Toughens Nacreâ€Iike Composite Materials. Advanced Materials, 2017, 29, 1605039.	21.0	85
9	Role of the polymer phase in the mechanics of nacre-like composites. Journal of the Mechanics and Physics of Solids, 2016, 96, 133-146.	4.8	83
10	3D printing of sacrificial templates into hierarchical porous materials. Scientific Reports, 2019, 9, 409.	3.3	81
11	Self-Assembly of Faceted Particles Triggered by a Moving Ice Front. Langmuir, 2014, 30, 8656-8663.	3.5	65
12	Templated Grain Growth in Macroporous Materials. Journal of the American Ceramic Society, 2014, 97, 1736-1742.	3.8	47
13	Quantifying the role of mineral bridges on the fracture resistance of nacre-like composites.  Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12698-12703.	7.1	44
14	Strong and tough nacre-like aluminas: Process–structure–performance relationships and position within the nacre-inspired composite landscape. Journal of Materials Research, 2020, 35, 1076-1094.	2.6	36
15	Iron-based particles for the magnetically-triggered crack healing of bituminous materials. Construction and Building Materials, 2018, 164, 775-782.	7.2	30
16	Nacre-like ceramic refractories for high temperature applications. Journal of the European Ceramic Society, 2018, 38, 2186-2193.	5.7	29
17	Design of textured multi-layered structures via magnetically assisted slip casting. Soft Matter, 2019, 15, 3886-3896.	2.7	24
18	Transparent Nacreâ€like Composites Toughened through Mineral Bridges. Advanced Functional Materials, 2020, 30, 2002149.	14.9	24

#	Article	IF	CITATIONS
19	Lightweight and stiff cellular ceramic structures by ice templating. Journal of Materials Research, 2014, 29, 175-181.	2.6	21
20	Cold densification and sintering of nanovaterite by pressing with water. Journal of the European Ceramic Society, 2020, 40, 893-900.	5.7	20
21	Carbon ablators with porosity tailored for aerospace thermal protection during atmospheric re-entry. Carbon, 2022, 195, 80-91.	10.3	20
22	Dispersion of Boron Nitride Powders in Aqueous Suspensions with Cellulose. Journal of the American Ceramic Society, 2014, 97, 394-398.	3.8	19
23	Processing of dense bioinspired ceramics with deliberate microstructure. Journal of the American Ceramic Society, 2019, 102, 7253-7263.	3.8	19
24	Broadband, High-Temperature Stable Reflector for Aerospace Thermal Radiation Protection. ACS Applied Materials & Description (12, 9925-9934).	8.0	18
25	Tough Bioinspired Composites That Self-Report Damage. ACS Applied Materials & Damp; Interfaces, 2021, 13, 27481-27490.	8.0	17
26	Tough metal-ceramic composites with multifunctional nacre-like architecture. Scientific Reports, 2021, 11, 1621.	3.3	13
27	Refractory interphase and its role on the mechanical properties of boron containing nacre-like ceramic. Journal of the European Ceramic Society, 2020, 40, 165-172.	5.7	12
28	Porous silicon carbide and aluminum oxide with unidirectional open porosity as model target materials for radioisotope beam production. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 385-388.	1.4	11
29	Fracture of hierarchical multi-layered bioinspired composites. Journal of the Mechanics and Physics of Solids, 2022, 159, 104750.	4.8	9
30	Multiscale deformation processes during cold sintering of nanovaterite compacts. Acta Materialia, 2020, 189, 266-273.	7.9	8
31	Transparent materials with stiff and tough hierarchical structures. Open Ceramics, 2021, 6, 100109.	2.0	8
32	Freezing of Gelled Suspensions: a Facile Route toward Mesoporous TiO2 Particles for High-Capacity Lithium-Ion Electrodes. ACS Applied Nano Materials, 2018, 1, 6622-6629.	5.0	5
33	Architectured ZnO–Cu particles for facile manufacturing of integrated Li-ion electrodes. Scientific Reports, 2020, 10, 12401.	3.3	0
34	Broadband, Temperature-Stable, Reflective Additives to Enhance Thermal Radiation Protection Systems. , 2020, , .		0