

# Alexandra H Brozena

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

3,139  
citations

279798

23  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing fibrillated cellulose as a sustainable technological material. <i>Nature</i> , 2021, 590, 47-56.	27.8	711
2	A general method to synthesize and sinter bulk ceramics in seconds. <i>Science</i> , 2020, 368, 521-526.	12.6	357
3	Copper-coordinated cellulose ion conductors for solid-state batteries. <i>Nature</i> , 2021, 598, 590-596.	27.8	262
4	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. <i>Science</i> , 2022, 376, eabn3103.	12.6	239
5	Critical Knowledge Gaps in Mass Transport through Single-Digit Nanopores: A Review and Perspective. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21309-21326.	3.1	234
6	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , 2021, 4, 62-70.	34.4	153
7	Lightweight, strong, moldable wood via cell wall engineering as a sustainable structural material. <i>Science</i> , 2021, 374, 465-471.	12.6	137
8	Controlling the optical properties of carbon nanotubes with organic colour-centre quantum defects. <i>Nature Reviews Chemistry</i> , 2019, 3, 375-392.	30.2	124
9	Sustainable high-strength macrofibres extracted from natural bamboo. <i>Nature Sustainability</i> , 2022, 5, 235-244.	23.7	113
10	Continuous Synthesis of Hollow High-Entropy Nanoparticles for Energy and Catalysis Applications. <i>Advanced Materials</i> , 2020, 32, e2002853.	21.0	93
11	A printed, recyclable, ultra-strong, and ultra-tough graphite structural material. <i>Materials Today</i> , 2019, 30, 17-25.	14.2	83
12	Outer Wall Selectively Oxidized, Water-Soluble Double-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2010, 132, 3932-3938.	13.7	74
13	Confined propagation of covalent chemical reactions on single-walled carbon nanotubes. <i>Nature Communications</i> , 2011, 2, 382.	12.8	67
14	Programmable heating and quenching for efficient thermochemical synthesis. <i>Nature</i> , 2022, 605, 470-476.	27.8	61
15	Printable, high-performance solid-state electrolyte films. <i>Science Advances</i> , 2020, 6, .	10.3	54
16	Controlled Defects in Semiconducting Carbon Nanotubes Promote Efficient Generation and Luminescence of Trions. <i>ACS Nano</i> , 2014, 8, 4239-4247.	14.6	52
17	A high-performance hydroxide exchange membrane enabled by Cu <sup>2+</sup> -crosslinked chitosan. <i>Nature Nanotechnology</i> , 2022, 17, 629-636.	31.5	50
18	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. <i>Science Advances</i> , 2022, 8, eabm4322.	10.3	49

#	ARTICLE	IF	CITATIONS
19	Propagative Sidewall Alkylcarboxylation that Induces Red-Shifted Near-IR Photoluminescence in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 826-830.	4.6	46
20	Rapid Synthesis of High-Entropy Oxide Microparticles. <i>Small</i> , 2022, 18, e2104761.	10.0	41
21	Tailoring grain growth and densification toward a high-performance solid-state electrolyte membrane. <i>Materials Today</i> , 2021, 42, 41-48.	14.2	32
22	Precision Imprinted Nanostructural Wood. <i>Advanced Materials</i> , 2019, 31, e1903270.	21.0	31
23	Strong, Water-Stable Ionic Cable from Bio-Hydrogel. <i>Chemistry of Materials</i> , 2019, 31, 9288-9294.	6.7	24
24	Rapid Pressureless Sintering of Glasses. <i>Small</i> , 2022, 18, e2107951.	10.0	20
25	Outerwall selective alkylcarboxylation and enrichment of double-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2011, 21, 18568.	6.7	7