

Berta DomÃnech

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

382
citations

840119

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docs citations

25
times ranked

472
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoindentation of Supercrystalline Nanocomposites: Linear Relationship Between Elastic Modulus and Hardness. <i>Jom</i> , 2022, 74, 2261-2276.	0.9	8
2	Strengthening Engineered Nanocrystal Three-Dimensional Superlattices via Ligand Conformation and Reactivity. <i>ACS Nano</i> , 2022, 16, 11692-11707.	7.3	8
3	Deformation Behavior of Cross-Linked Supercrystalline Nanocomposites: An in Situ SAXS/WAXS Study during Uniaxial Compression. <i>Nano Letters</i> , 2021, 21, 2891-2897.	4.5	10
4	Constitutive and fracture behavior of ultra-strong supercrystalline nanocomposites. <i>Applied Physics Reviews</i> , 2021, 8, 031414.	5.5	7
5	Defects and plasticity in ultrastrong supercrystalline nanocomposites. <i>Science Advances</i> , 2021, 7, .	4.7	17
6	Strong Macroscale Supercrystalline Structures by 3D Printing Combined with Self-Assembly of Ceramic Functionalized Nanoparticles. <i>Advanced Engineering Materials</i> , 2020, 22, 2070028.	1.6	2
7	Controlling the Large-Scale Fabrication of Supraparticles. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11263-11272.	1.2	13
8	Mapping the Mechanical Properties of Hierarchical Supercrystalline Ceramic-Organic Nanocomposites. <i>Molecules</i> , 2020, 25, 4790.	1.7	9
9	Strong Macroscale Supercrystalline Structures by 3D Printing Combined with Self-Assembly of Ceramic Functionalized Nanoparticles. <i>Advanced Engineering Materials</i> , 2020, 22, 2000352.	1.6	19
10	Ultra-thin and ultra-strong organic interphase in nanocomposites with supercrystalline particle arrangement: Mechanical behavior identification via multiscale numerical modeling. <i>Composites Science and Technology</i> , 2020, 198, 108283.	3.8	11
11	Modulating the Mechanical Properties of Supercrystalline Nanocomposite Materials via Solvent-Ligand Interactions. <i>Langmuir</i> , 2019, 35, 13893-13903.	1.6	26
12	Iron oxide-based nanostructured ceramics with tailored magnetic and mechanical properties: development of mechanically robust, bulk superparamagnetic materials. <i>Nanoscale Advances</i> , 2019, 1, 3139-3150.	2.2	28
13	Nanoindentation-based study of the mechanical behavior of bulk supercrystalline ceramic-organic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3247-3256.	2.8	50
14	Hierarchical supercrystalline nanocomposites through the self-assembly of organically-modified ceramic nanoparticles. <i>Scientific Reports</i> , 2019, 9, 3435.	1.6	22
15	Hybrid Catalytic Membranes: Tunable and Versatile Materials for Fine Chemistry Applications. <i>Materials Today: Proceedings</i> , 2016, 3, 419-423.	0.9	5
16	Tuning the structure and the mechanical properties of epoxy-silica sol-gel hybrid materials. <i>RSC Advances</i> , 2016, 6, 10736-10742.	1.7	9
17	Chemical and electrochemical characterization of Nafion containing silver nanoparticles in a stripe-like distribution. <i>RSC Advances</i> , 2016, 6, 9923-9931.	1.7	7
18	Polyurethane foams doped with stable silver nanoparticles as bactericidal and catalytic materials for the effective treatment of water. <i>New Journal of Chemistry</i> , 2016, 40, 3716-3725.	1.4	21

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19	Uncommon patterns in Nafion films loaded with silver nanoparticles. <i>Chemical Communications</i> , 2014, 50, 4693-4695.	2.2	13
20	Polymer-Metal Nanocomposites Containing Dual-Function Metal Nanoparticles: Ion-Exchange Materials Modified with Catalytically-Active and Bactericide Silver Nanoparticles. <i>Solvent Extraction and Ion Exchange</i> , 2014, 32, 301-315.	0.8	6
21	Development of novel catalytically active polymer-metal-nanocomposites based on activated foams and textile fibers. <i>Nanoscale Research Letters</i> , 2013, 8, 238.	3.1	5
22	Catalytic membranes with palladium nanoparticles: From tailored polymer to catalytic applications. <i>Catalysis Today</i> , 2012, 193, 158-164.	2.2	36
23	Nanocomposite Membranes with Pd and Ag Nanoparticles. A New Material for Catalytic Membranes Development. <i>Procedia Engineering</i> , 2012, 44, 1264-1267.	1.2	2
24	Polymer-stabilized palladium nanoparticles for catalytic membranes: ad hoc polymer fabrication. <i>Nanoscale Research Letters</i> , 2011, 6, 406.	3.1	39
25	Bifunctional Polymer-Metal Nanocomposite Ion Exchange Materials. , 0, , .		9