

# Berta DomÃnech

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8158987/publications.pdf>

Version: 2024-02-01

25  
papers

382  
citations

840119

11  
h-index

839053

18  
g-index

25  
all docs

25  
docs citations

25  
times ranked

472  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Polymer-stabilized palladium nanoparticles for catalytic membranes: ad hoc polymer fabrication. <i>Nanoscale Research Letters</i> , 2011, 6, 406.	3.1	39
3	Catalytic membranes with palladium nanoparticles: From tailored polymer to catalytic applications. <i>Catalysis Today</i> , 2012, 193, 158-164.	2.2	36
4	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
5	Modulating the Mechanical Properties of Supercrystalline Nanocomposite Materials via Solvent-Ligand Interactions. <i>Langmuir</i> , 2019, 35, 13893-13903.	1.6	26
6	Hierarchical supercrystalline nanocomposites through the self-assembly of organically-modified ceramic nanoparticles. <i>Scientific Reports</i> , 2019, 9, 3435.	1.6	22
7	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
8	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
9	Defects and plasticity in ultrastrong supercrystalline nanocomposites. <i>Science Advances</i> , 2021, 7, .	4.7	17
10	Uncommon patterns in Nafion films loaded with silver nanoparticles. <i>Chemical Communications</i> , 2014, 50, 4693-4695.	2.2	13
11	Controlling the Large-Scale Fabrication of Supraparticles. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11263-11272.	1.2	13
12	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
13	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
14	Bifunctional Polymer-Metal Nanocomposite Ion Exchange Materials. , 0, , .		9
15	Tuning the structure and the mechanical properties of epoxy-silica gel hybrid materials. <i>RSC Advances</i> , 2016, 6, 10736-10742.	1.7	9
16	Mapping the Mechanical Properties of Hierarchical Supercrystalline Ceramic-Organic Nanocomposites. <i>Molecules</i> , 2020, 25, 4790.	1.7	9
17	Nanoindentation of Supercrystalline Nanocomposites: Linear Relationship Between Elastic Modulus and Hardness. <i>Jom</i> , 2022, 74, 2261-2276.	0.9	8
18	Strengthening Engineered Nanocrystal Three-Dimensional Superlattices via Ligand Conformation and Reactivity. <i>ACS Nano</i> , 2022, 16, 11692-11707.	7.3	8

#	ARTICLE	IF	CITATIONS
19	Chemical and electrochemical characterization of Nafion containing silver nanoparticles in a stripe-like distribution. RSC Advances, 2016, 6, 9923-9931.	1.7	7
20	Constitutive and fracture behavior of ultra-strong supercrystalline nanocomposites. Applied Physics Reviews, 2021, 8, 031414.	5.5	7
21	Polymer-Metal Nanocomposites Containing Dual-Function Metal Nanoparticles: Ion-Exchange Materials Modified with Catalytically-Active and Bactericide Silver Nanoparticles. Solvent Extraction and Ion Exchange, 2014, 32, 301-315.	0.8	6
22	Development of novel catalytically active polymer-metal-nanocomposites based on activated foams and textile fibers. Nanoscale Research Letters, 2013, 8, 238.	3.1	5
23	Hybrid Catalytic Membranes: Tunable and Versatile Materials for Fine Chemistry Applications. Materials Today: Proceedings, 2016, 3, 419-423.	0.9	5
24	Nanocomposite Membranes with Pd and Ag Nanoparticles. A New Material for Catalytic Membranes Development. Procedia Engineering, 2012, 44, 1264-1267.	1.2	2
25	Strong Macroscale Supercrystalline Structures by 3D Printing Combined with Self-Assembly of Ceramic Functionalized Nanoparticles. Advanced Engineering Materials, 2020, 22, 2070028.	1.6	2