Xinchun Tian

List of Publications by Year
in descending order

24 papers	437 citations	933447 10 h-index	713466 21 g-index
27 all docs	27 docs citations	27 times ranked	817 citing authors

#	Article	IF	Citations
1	Thermal Processing of Silicones for Green, Scalable, and Healable Superhydrophobic Coatings. Advanced Materials, 2016, 28, 3677-3682.	21.0	165
2	Calcination does not remove all carbon from colloidal nanocrystal assemblies. Nature Communications, 2017, 8, 2038.	12.8	52
3	Building Materials from Colloidal Nanocrystal Arrays: Preventing Crack Formation during Ligand Removal by Controlling Structure and Solvation. Advanced Materials, 2016, 28, 8892-8899.	21.0	33
4	Ovarian Primary and Metastatic Tumors Suppressed by Survivin Knockout or a Novel Survivin Inhibitor. Molecular Cancer Therapeutics, 2019, 18, 2233-2245.	4.1	31
5	Selective Removal of Ligands from Colloidal Nanocrystal Assemblies with Non-Oxidizing He Plasmas. Chemistry of Materials, 2018, 30, 5961-5967.	6.7	17
6	Simplicity as a Route to Impact in Materials Research. Advanced Materials, 2017, 29, 1604681.	21.0	15
7	Stress response to CO2 deprivation by Arabidopsis thaliana in plant cultures. PLoS ONE, 2019, 14, e0212462.	2.5	14
8	In Situ TEM Study of the Amorphous-to-Crystalline Transition during Dielectric Breakdown in TiO₂ Film. ACS Applied Materials & Interfaces, 2019, 11, 40726-40733.	8.0	13
9	Building Materials from Colloidal Nanocrystal Assemblies: Molecular Control of Solid/Solid Interfaces in Nanostructured Tetragonal ZrO2. Chemistry of Materials, 2017, 29, 7888-7900.	6.7	12
10	Suppressing Evaporative Loss in Slippery Liquid-Infused Porous Surfaces (SLIPS) with Self-Suspended Perfluorinated Nanoparticles. Langmuir, 2020, 36, 5106-5111.	3.5	12
11	Self-Limiting Processes in the Flame-Based Fabrication of Superhydrophobic Surfaces from Silicones. ACS Applied Materials & Interfaces, 2019, 11, 29231-29241.	8.0	11
12	Structural Instability in Electrically Stressed, Oxygen Deficient BaTiO₃ Nanocrystals. Advanced Functional Materials, 2020, 30, 2004607.	14.9	9
13	Motion of phase boundary during antiferroelectricâ€"ferroelectric transition in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>PbZrO</mml:mi><mml:mn>3</mml:mn></m -based ceramic. Physical Review Materials, 2020, 4, .	2.4	9
14	Sulfur in oleylamine as a powerful and versatile etchant for oxide, sulfide, and metal colloidal nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600543.	1.8	7
15	Photonic structure arrays generated using butterfly wing scales as biological units. Journal of Materials Chemistry B, 2015, 3, 1743-1747.	5.8	6
16	Large-Scale Synthesis of Colloidal Si Nanocrystals and Their Helium Plasma Processing into Spin-On, Carbon-Free Nanocrystalline Si Films. ACS Applied Materials & Interfaces, 2018, 10, 20740-20747.	8.0	5
17	<i>In situ</i> TEM study of the transitions between crystalline Si and nonstoichiometric amorphous oxide under bipolar voltage bias. Journal of Applied Physics, 2019, 125, .	2.5	5
18	Self-Regulated Porosity and Reactivity in Mesoporous Heterogeneous Catalysts Using Colloidal Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 18410-18416.	3.1	5

#	Article	IF	Citations
19	On the kinetics of the removal of ligands from films of colloidal nanocrystals by plasmas. Physical Chemistry Chemical Physics, 2019, 21, 1614-1622.	2.8	4
20	HOMEs for plants and microbes â€“ a phenotyping approach with quantitative control of signaling between organisms and their individual environments. Lab on A Chip, 2018, 18, 620-626.	6.0	3
21	From Petri Dishes to Model Ecosystems. Trends in Plant Science, 2018, 23, 378-381.	8.8	3
22	Direct Observations of Field-Intensity-Dependent Dielectric Breakdown Mechanisms in TiO2 Single Nanocrystals. ACS Nano, 2020, 14, 8328-8334.	14.6	3
23	In situ TEM measurement of electrical properties of individual BaTiO3 nanocubes. Applied Physics Letters, 2021, 118, 192901.	3.3	3
24	In Situ Transmission Electron Microscopy Study of Conductive Filament Formation in Copper Oxides. IEEE Transactions on Device and Materials Reliability, 2020, 20, 609-612.	2.0	0