

Tanya Shirman

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,234
citations

516710

16
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

1983
citing authors

#	ARTICLE	IF	CITATIONS
1	A colloidoscope of colloid-based porous materials and their uses. <i>Chemical Society Reviews</i> , 2016, 45, 281-322.	38.1	256
2	Color from hierarchy: Diverse optical properties of micron-sized spherical colloidal assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10845-10850.	7.1	242
3	Photothermally triggered actuation of hybrid materials as a new platform for in vitro cell manipulation. <i>Nature Communications</i> , 2017, 8, 14700.	12.8	88
4	Probing Atomic Distributions in Mono- and Bimetallic Nanoparticles by Supervised Machine Learning. <i>Nano Letters</i> , 2019, 19, 520-529.	9.1	80
5	Assembly of Crystalline Halogen-Bonded Materials by Physical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2008, 130, 8162-8163.	13.7	76
6	Achieving High Selectivity for Alkyne Hydrogenation at High Conversions with Compositionally Optimized PdAu Nanoparticle Catalysts in Raspberry Colloid-Templated SiO ₂ . <i>ACS Catalysis</i> , 2020, 10, 441-450.	11.2	61
7	Halogen-Bonding Mediated Stepwise Assembly of Gold Nanoparticles onto Planar Surfaces. <i>ACS Nano</i> , 2011, 5, 6553-6563.	14.6	56
8	Dilute Pd/Au Alloy Nanoparticles Embedded in Colloid-Templated Porous SiO ₂ : Stable Au-Based Oxidation Catalysts. <i>Chemistry of Materials</i> , 2019, 31, 5759-5768.	6.7	50
9	Nanocrystalline Precursors for the Co-free Assembly of Crack-free Metal Oxide Inverse Opals. <i>Advanced Materials</i> , 2018, 30, e1706329.	21.0	41
10	Enhancing catalytic performance of dilute metal alloy nanomaterials. <i>Communications Chemistry</i> , 2020, 3, .	4.5	41
11	Neural network assisted analysis of bimetallic nanocatalysts using X-ray absorption near edge structure spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18902-18910.	2.8	33
12	Modular Design of Advanced Catalytic Materials Using Hybrid Organic-Inorganic Raspberry Particles. <i>Advanced Functional Materials</i> , 2018, 28, 1704559.	14.9	31
13	Hierarchical structural control of visual properties in self-assembled photonic-plasmonic pigments. <i>Optics Express</i> , 2014, 22, 27750.	3.4	29
14	New Architectures for Designed Catalysts: Selective Oxidation using AgAu Nanoparticles on Colloid-Templated Silica. <i>Chemistry - A European Journal</i> , 2018, 24, 1833-1837.	3.3	29
15	Halogen-Bonded Supramolecular Assemblies Based on Phenylethynyl Pyridine Derivatives: Driving Crystal Packing through Systematic Chemical Modifications. <i>Crystal Growth and Design</i> , 2008, 8, 3066-3072.	3.0	25
16	Finding the Perfect Match: Halogen vs Hydrogen Bonding. <i>Crystal Growth and Design</i> , 2015, 15, 4756-4759.	3.0	25
17	Raspberry colloid-templated approach for the synthesis of palladium-based oxidation catalysts with enhanced hydrothermal stability and low-temperature activity. <i>Catalysis Today</i> , 2021, 360, 241-251.	4.4	13
18	New Role of Pd Hydride as a Sensor of Surface Pd Distributions in Pd ^δ Au Catalysts. <i>ChemCatChem</i> , 2020, 12, 717-721.	3.7	12

#	ARTICLE	IF	CITATIONS
19	Silica-titania hybrids for structurally robust inverse opals with controllable refractive index. <i>Journal of Materials Chemistry C</i> , 2020, 8, 109-116.	5.5	12
20	The dynamic behavior of dilute metallic alloy Pd _x Au _{1-x} /SiO ₂ raspberry colloid templated catalysts under CO oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 4072-4082.	4.1	12
21	Integrated and Segregated Au/Fe ₂ O ₃ Binary Nanoparticle Assemblies. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12268-12271.	13.8	10
22	On the Origin of Sinter-Resistance and Catalyst Accessibility in Raspberry-Colloid-Templated Catalyst Design. <i>Advanced Functional Materials</i> , 2021, 31, 2106876.	14.9	10
23	New Architectures for Designed Catalysts: Selective Oxidation using AgAu Nanoparticles on Colloid-Templated Silica. <i>Chemistry - A European Journal</i> , 2018, 24, 1743-1743.	3.3	0