Tanya Shirman

List of Publications by Year
in descending order

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23	1,234	516710 16	642732 23
papers	citations	h-index	g-index

25	25	25	1983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Raspberry colloid-templated approach for the synthesis of palladium-based oxidation catalysts with enhanced hydrothermal stability and low-temperature activity. Catalysis Today, 2021, 360, 241-251.	4.4	13
2	The dynamic behavior of dilute metallic alloy Pd_xAu_{1â^'x}/SiO₂ raspberry colloid templated catalysts under CO oxidation. Catalysis Science and Technology, 2021, 11, 4072-4082.	4.1	12
3	On the Origin of Sinterâ€Resistance and Catalyst Accessibility in Raspberryâ€Colloidâ€Templated Catalyst Design. Advanced Functional Materials, 2021, 31, 2106876.	14.9	10
4	Achieving High Selectivity for Alkyne Hydrogenation at High Conversions with Compositionally Optimized PdAu Nanoparticle Catalysts in Raspberry Colloid-Templated SiO₂. ACS Catalysis, 2020, 10, 441-450.	11.2	61
5	New Role of Pd Hydride as a Sensor of Surface Pd Distributions in Pdâ^'Au Catalysts. ChemCatChem, 2020, 12, 717-721.	3.7	12
6	Silicaâ€“titania hybrids for structurally robust inverse opals with controllable refractive index. Journal of Materials Chemistry C, 2020, 8, 109-116.	5.5	12
7	Neural network assisted analysis of bimetallic nanocatalysts using X-ray absorption near edge structure spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 18902-18910.	2.8	33
8	Enhancing catalytic performance of dilute metal alloy nanomaterials. Communications Chemistry, 2020, 3, .	4.5	41
9	Dilute Pd/Au Alloy Nanoparticles Embedded in Colloid-Templated Porous SiO₂: Stable Au-Based Oxidation Catalysts. Chemistry of Materials, 2019, 31, 5759-5768.	6.7	50
10	Probing Atomic Distributions in Mono- and Bimetallic Nanoparticles by Supervised Machine Learning. Nano Letters, 2019, 19, 520-529.	9.1	80
11	New Architectures for Designed Catalysts: Selective Oxidation using AgAu Nanoparticles on Colloid-Templated Silica. Chemistry - A European Journal, 2018, 24, 1743-1743.	3.3	0
12	Nanocrystalline Precursors for the Coâ€Assembly of Crackâ€Free Metal Oxide Inverse Opals. Advanced Materials, 2018, 30, e1706329.	21.0	41
13	New Architectures for Designed Catalysts: Selective Oxidation using AgAu Nanoparticles on Colloidâ€Templated Silica. Chemistry - A European Journal, 2018, 24, 1833-1837.	3.3	29
14	Modular Design of Advanced Catalytic Materials Using Hybrid Organicâ€“Inorganic Raspberry Particles. Advanced Functional Materials, 2018, 28, 1704559.	14.9	31
15	Photothermally triggered actuation of hybrid materials as a new platform for in vitro cell manipulation. Nature Communications, 2017, 8, 14700.	12.8	88
16	A colloidoscope of colloid-based porous materials and their uses. Chemical Society Reviews, 2016, 45, 281-322.	38.1	256
17	Color from hierarchy: Diverse optical properties of micron-sized spherical colloidal assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10845-10850.	7.1	242
18	Finding the Perfect Match: Halogen vs Hydrogen Bonding. Crystal Growth and Design, 2015, 15, 4756-4759.	3.0	25

#	Article	IF	Citations
19	Hierarchical structural control of visual properties in self-assembled photonic-plasmonic pigments. Optics Express, 2014, 22, 27750.	3.4	29
20	Integrated and Segregated Au/Î³â€Fe₂O₃ Binary Nanoparticle Assemblies. Angewandte Chemie - International Edition, 2012, 51, 12268-12271.	13.8	10
21	Halogen-Bonding Mediated Stepwise Assembly of Gold Nanoparticles onto Planar Surfaces. ACS Nano, 2011, 5, 6553-6563.	14.6	56
22	Halogen-Bonded Supramolecular Assemblies Based on Phenylethynyl Pyridine Derivatives: Driving Crystal Packing through Systematic Chemical Modifications. Crystal Growth and Design, 2008, 8, 3066-3072.	3.0	25
23	Assembly of Crystalline Halogen-Bonded Materials by Physical Vapor Deposition. Journal of the American Chemical Society, 2008, 130, 8162-8163.	13.7	76