

Tanya Prozorov

List of Publications by Year in descending order

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58
papers

2,474
citations

236925

25
h-index

206112

48
g-index

59
all docs

59
docs citations

59
times ranked

3571
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembled Monolayers of Alkanesulfonic and -phosphonic Acids on Amorphous Iron Oxide Nanoparticles. <i>Langmuir</i> , 1999, 15, 7111-7115.	3.5	251
2	High Velocity Interparticle Collisions Driven by Ultrasound. <i>Journal of the American Chemical Society</i> , 2004, 126, 13890-13891.	13.7	186
3	A Cultured Greigite-Producing Magnetotactic Bacterium in a Novel Group of Sulfate-Reducing Bacteria. <i>Science</i> , 2011, 334, 1720-1723.	12.6	184
4	Protein-Mediated Synthesis of Uniform Superparamagnetic Magnetite Nanocrystals. <i>Advanced Functional Materials</i> , 2007, 17, 951-957.	14.9	154
5	Sonochemistry and Sonoluminescence of Room-Temperature Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2003, 125, 11138-11139.	13.7	132
6	Novel magnetic nanomaterials inspired by magnetotactic bacteria: Topical review. <i>Materials Science and Engineering Reports</i> , 2013, 74, 133-172.	31.8	124
7	Biomimetic Self-Assembling Copolymer-Hydroxyapatite Nanocomposites with the Nanocrystal Size Controlled by Citrate. <i>Chemistry of Materials</i> , 2011, 23, 2481-2490.	6.7	98
8	Self-Assembly and Biphasic Iron-Binding Characteristics of Mms6, A Bacterial Protein That Promotes the Formation of Superparamagnetic Magnetite Nanoparticles of Uniform Size and Shape. <i>Biomacromolecules</i> , 2012, 13, 98-105.	5.4	90
9	Nucleation of Iron Oxide Nanoparticles Mediated by Mms6 Protein <i>in Situ</i> . <i>ACS Nano</i> , 2014, 8, 9097-9106.	14.6	90
10	Magnetic nanoparticles as efficient bulk pinning centers in type-II superconductors. <i>Physical Review B</i> , 2005, 71, .	3.2	89
11	Cobalt Ferrite Nanocrystals: Out-Performing Magnetotactic Bacteria. <i>ACS Nano</i> , 2007, 1, 228-233.	14.6	86
12	The Mechanisms for Nanoparticle Surface Diffusion and Chain Self-Assembly Determined from Real-Time Nanoscale Kinetics in Liquid. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21261-21269.	3.1	86
13	Magnetic irreversibility and the Verwey transition in nanocrystalline bacterial magnetite. <i>Physical Review B</i> , 2007, 76, .	3.2	84
14	Self-Assembled Monolayer Coatings on Amorphous Iron and Iron Oxide Nanoparticles: Thermal Stability and Chemical Reactivity Studies. <i>Langmuir</i> , 1997, 13, 6151-6158.	3.5	83
15	Isolation of obligately alkaliphilic magnetotactic bacteria from extremely alkaline environments. <i>Environmental Microbiology</i> , 2011, 13, 2342-2350.	3.8	72
16	Correlative Electron and Fluorescence Microscopy of Magnetotactic Bacteria in Liquid: Toward In Vivo Imaging. <i>Scientific Reports</i> , 2014, 4, 6854.	3.3	65
17	Size control of in vitro synthesized magnetite crystals by the MamC protein of <i>Magnetococcus marinus</i> strain MC-1. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5109-5121.	3.6	60
18	Effect of graphite as a co-dopant on the dehydrogenation and hydrogenation kinetics of Ti-doped sodium aluminum hydride. <i>Journal of Alloys and Compounds</i> , 2005, 395, 252-262.	5.5	57

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19	Metabolic engineering of an acid-tolerant yeast strain <i>Pichia kudriavzevii</i> for itaconic acid production. <i>Metabolic Engineering Communications</i> , 2020, 10, e00124.	3.6	53
20	The use of ultrasound radiation for the preparation of magnetic fluids. <i>Thin Solid Films</i> , 1998, 318, 38-41.	1.8	38
21	Effect of surfactant concentration on the size of coated ferromagnetic nanoparticles. <i>Thin Solid Films</i> , 1999, 340, 189-193.	1.8	34
22	<i>Stomatobaculum longum</i> gen. nov., sp. nov., an obligately anaerobic bacterium from the human oral cavity. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1450-1456.	1.7	34
23	Sonochemical modification of the superconducting properties of MgB ₂ . <i>Applied Physics Letters</i> , 2003, 83, 2019-2021.	3.3	30
24	Manganese incorporation into the magnetosome magnetite: magnetic signature of doping. <i>European Journal of Mineralogy</i> , 2014, 26, 457-471.	1.3	29
25	Synthesis of a novel photopolymerized nanocomposite hydrogel for treatment of acute mechanical damage to cartilage. <i>Acta Biomaterialia</i> , 2011, 7, 3094-3100.	8.3	25
26	The "Melting Point" of Alkanethiol-Coated Amorphous Fe ₂ O ₃ Nanoparticles. <i>Advanced Materials</i> , 1998, 10, 532-535.	21.0	23
27	Direct Visualization of the Hydration Layer on Alumina Nanoparticles with the Fluid Cell STEM in situ. <i>Scientific Reports</i> , 2015, 5, 9830.	3.3	22
28	Magnetic microbes: Bacterial magnetite biomineralization. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 36-43.	5.0	22
29	Off-axis electron holography of bacterial cells and magnetic nanoparticles in liquid. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170464.	3.4	22
30	Does the Self-Assembled Coating of Magnetic Nanoparticles Cover Individual Particles or Agglomerates?. <i>Advanced Materials</i> , 1998, 10, 1529-1532.	21.0	21
31	Salt Mediated Self-Assembly of Poly(ethylene glycol)-Functionalized Gold Nanorods. <i>Scientific Reports</i> , 2019, 9, 20349.	3.3	19
32	Visualization of Iron-Binding Micelles in Acidic Recombinant Biomineralization Protein, MamC. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	15
33	Effects of high-intensity ultrasound on Bi ₂ Sr ₂ CaCu ₂ O _{8+x} superconductor. <i>Applied Physics Letters</i> , 2004, 85, 3513-3515.	3.3	14
34	Effective collective barrier for magnetic relaxation in frozen ferrofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 281, 312-317.	2.3	14
35	Following iron speciation in the early stages of magnetite magnetosome biomineralization. <i>Journal of Materials Research</i> , 2016, 31, 547-555.	2.6	14
36	Chemical Purity of <i>Shewanella oneidensis</i> -Induced Magnetites. <i>Geomicrobiology Journal</i> , 2013, 30, 731-748.	2.0	10

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37	Sonochemical doping of Ti-catalyzed sodium aluminum hydride. <i>Journal of Alloys and Compounds</i> , 2006, 419, 162-171.	5.5	9
38	Direct Observation of Early Stages of Growth of Multilayered DNA-Templated Au-Pd-Au Core-Shell Nanoparticles in Liquid Phase. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 19.	4.1	9
39	Imaging of Unstained DNA Origami Triangles with Electron Microscopy. <i>Small Methods</i> , 2019, 3, 1900393.	8.6	7
40	Salt-Induced Liquid-Liquid Phase Separation and Interfacial Crystal Formation in Poly(<i>N</i> -isopropylacrylamide)-Capped Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5349-5362.	3.1	6
41	Superconducting Nanocomposites: Enhancement of Bulk Pinning and Improvement of Intergrain Coupling. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 3277-3280.	1.7	3
42	Shape Transformation of Bimetallic Au-Pd Core-Shell Nanocubes to Multilayered Au-Pd-Au Core-Shell Hexagonal Platelets. <i>Metallography, Microstructure, and Analysis</i> , 2015, 4, 481-487.	1.0	2
43	New approach to electron microscopy imaging of gel nanocomposites in situ. <i>Micron</i> , 2019, 120, 104-112.	2.2	2
44	Atom Probe Tomography Analysis of Mica. <i>Microscopy and Microanalysis</i> , 2021, , 1-14.	0.4	2
45	Correlative Fluorescence and Liquid Cell STEM of Live Magnetotactic Bacteria. <i>Microscopy and Microanalysis</i> , 2014, 20, 1510-1511.	0.4	1
46	In situ STEM Investigation of Shape-Controlled Synthesis of Au-Pd Core-Shell Nanocubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 951-952.	0.4	1
47	Correlative Electron and Fluorescence Microscopy of Magnetotactic Bacteria in Liquid: Toward In Vivo Imaging. <i>Microscopy and Microanalysis</i> , 2015, 21, 1499-1500.	0.4	1
48	Unstained DNA Origami Imaging: Imaging of Unstained DNA Origami Triangles with Electron Microscopy (<i>Small Methods</i> 12/2019). <i>Small Methods</i> , 2019, 3, 1970039.	8.6	1
49	High- T_c Superconductors-Based Nanocomposites With Improved Intergrain Coupling and Enhanced Bulk Pinning. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 3114-3117.	1.7	0
50	Protein-Mediated Nucleation of Nanoparticles In-Situ. <i>Microscopy and Microanalysis</i> , 2014, 20, 1604-1605.	0.4	0
51	Visualization of Gold Nanoparticle Self-assembly Kinetics. <i>Microscopy and Microanalysis</i> , 2015, 21, 945-946.	0.4	0
52	New Approach to Analysis of Noisy EELS Data. <i>Microscopy and Microanalysis</i> , 2015, 21, 1593-1594.	0.4	0
53	Correlative in situ Analysis of Magnetosome Magnetite Biomineralization. <i>Microscopy and Microanalysis</i> , 2016, 22, 12-13.	0.4	0
54	Direct Observation of the Growth of Au-Pd Core-Shell Nanoparticles Using Low-Dose STEM with the Liquid Cell in situ. <i>Microscopy and Microanalysis</i> , 2016, 22, 744-745.	0.4	0

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55	Future Prospects for Biomolecular, Biomimetic, and Biomaterials Research Enabled by New Liquid Cell Electron Microscopy Techniques. , 0, , 476-500.		0
56	In-Situ Nucleation, Growth and Evolution of Au Nanoparticles during Metallization of DNA Origami Visualized with HAADF-STEM. Microscopy and Microanalysis, 2018, 24, 282-283.	0.4	0
57	Correlative Microbially-Assisted Imaging of Cellulose Deconstruction with Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 382-383.	0.4	0
58	In-situ STEM Metallization of DNA Origami. Microscopy and Microanalysis, 2021, 27, 35-36.	0.4	0