

Anna Cristina S Samia

List of Publications by Year in descending order

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62
papers

6,877
citations

136740

32
h-index

123241

61
g-index

62
all docs

62
docs citations

62
times ranked

11048
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Nitrogen Doping in TiO ₂ Nanoparticles. Nano Letters, 2003, 3, 1049-1051.	4.5	1,199
2	Semiconductor Quantum Dots for Photodynamic Therapy. Journal of the American Chemical Society, 2003, 125, 15736-15737.	6.6	753
3	Highly Efficient Drug Delivery with Gold Nanoparticle Vectors for <i>in Vivo</i> Photodynamic Therapy of Cancer. Journal of the American Chemical Society, 2008, 130, 10643-10647.	6.6	682
4	Formation of Oxynitride as the Photocatalytic Enhancing Site in Nitrogen-Doped Titania Nanocatalysts: Comparison to a Commercial Nanopowder. Advanced Functional Materials, 2005, 15, 41-49.	7.8	402
5	Superparamagnetic Relaxation and Magnetic Anisotropy Energy Distribution in CoFe ₂ O ₄ Spinel Ferrite Nanocrystallites. Journal of Physical Chemistry B, 1999, 103, 6876-6880.	1.2	283
6	Identification and characterization of the intermediate phase in hybrid organic-inorganic MAPbI ₃ perovskite. Dalton Transactions, 2016, 45, 3806-3813.	1.6	283
7	Quantum Dot-based Energy Transfer: Perspectives and Potential for Applications in Photodynamic Therapy. Photochemistry and Photobiology, 2006, 82, 617.	1.3	261
8	Structural effects on the magnetic hyperthermia properties of iron oxide nanoparticles. Progress in Natural Science: Materials International, 2016, 26, 440-448.	1.8	253
9	Coherency Strain Effects on the Optical Response of Core/Shell Heteronanostructures. Nano Letters, 2003, 3, 799-803.	4.5	194
10	Synthesis, assembly and physical properties of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2006, 305, 100-109.	1.0	163
11	High-performance iron oxide nanoparticles for magnetic particle imaging – guided hyperthermia (hMPI). Nanoscale, 2016, 8, 12162-12169.	2.8	155
12	Delivery and Efficacy of a Cancer Drug as a Function of the Bond to the Gold Nanoparticle Surface. Langmuir, 2010, 26, 2248-2255.	1.6	144
13	Magnetic nanoparticles: material engineering and emerging applications in lithography and biomedicine. Journal of Materials Science, 2016, 51, 513-553.	1.7	130
14	Magnetic particle imaging: advancements and perspectives for real-time in vivo monitoring and image-guided therapy. Nanoscale, 2013, 5, 4040.	2.8	129
15	Iron Oxide and Titanium Dioxide Nanoparticle Effects on Plant Performance and Root Associated Microbes. International Journal of Molecular Sciences, 2015, 16, 23630-23650.	1.8	125
16	Observation of Non-Förster-Type Energy-Transfer Behavior in Quantum Dot-Phthalocyanine Conjugates. Journal of the American Chemical Society, 2006, 128, 13974-13975.	6.6	113
17	Investigation of the Crystallization Process in 2 nm CdSe Quantum Dots. Journal of the American Chemical Society, 2005, 127, 4372-4375.	6.6	112
18	Characterizing the magnetic anisotropy constant of spinel cobalt ferrite nanoparticles. Applied Physics Letters, 2000, 76, 3624-3626.	1.5	109

#	ARTICLE	IF	CITATIONS
19	Ligand Effect on the Growth and the Digestion of Co Nanocrystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 4126-4127.	6.6	107
20	PbTe Nanorods by Sonoelectrochemistry. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5855-5857.	7.2	103
21	Magnetic Particle Imaging Tracers: State-of-the-Art and Future Directions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2509-2517.	2.1	102
22	Evaluation of the photoinduced electron relaxation dynamics of Cu _{1.8} S quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1091-1095.	1.3	94
23	Femtosecond Spectroscopic Investigation of the Carrier Lifetimes in Digenite Quantum Dots and Discrimination of the Electron and Hole Dynamics via Ultrafast Interfacial Electron Transfer. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12431-12437.	1.2	77
24	Iron oxide-loaded hollow mesoporous silica nanocapsules for controlled drug release and hyperthermia. <i>Chemical Communications</i> , 2013, 49, 11436.	2.2	73
25	Effect of Ligand-Metal Interactions on the Growth of Transition-Metal and Alloy Nanoparticles. <i>Chemistry of Materials</i> , 2006, 18, 5203-5212.	3.2	69
26	Adsorption of Cd ²⁺ on Carboxyl-Terminated Superparamagnetic Iron Oxide Nanoparticles. <i>Analytical Chemistry</i> , 2012, 84, 3764-3770.	3.2	60
27	Titanium oxide nanoparticle effects on composition of soil microbial communities and plant performance. <i>Biology and Fertility of Soils</i> , 2014, 50, 1169-1173.	2.3	60
28	Fabrication of double-walled TiO ₂ nanotubes with bamboo morphology via one-step alternating voltage anodization. <i>Electrochemistry Communications</i> , 2011, 13, 1013-1015.	2.3	54
29	A Chemometric Approach for Predicting the Size of Magnetic Spinel Ferrite Nanoparticles from the Synthesis Conditions. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7919-7922.	1.2	49
30	Highly-ordered TiO ₂ nanotube arrays with double-walled and bamboo-type structures in dye-sensitized solar cells. <i>Nano Energy</i> , 2012, 1, 796-804.	8.2	44
31	Magnetic Glycol Chitin-Based Hydrogel Nanocomposite for Combined Thermal and Amino-Acid-Assisted Biofilm Disruption. <i>ACS Infectious Diseases</i> , 2018, 4, 1246-1256.	1.8	34
32	Highly Efficient Antibacterial Iron Oxide@Carbon Nanochains from W _{1/4} stite Precursor Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20154-20163.	4.0	32
33	Study on the behaviors of fungi-concrete surface interactions and theoretical assessment of its potentials for durable concrete with fungal-mediated self-healing. <i>Journal of Cleaner Production</i> , 2021, 292, 125870.	4.6	31
34	Engineered magnetic nanoparticles enhance chlorophyll content and growth of barley through the induction of photosystem genes. <i>Environmental Science and Pollution Research</i> , 2020, 27, 34311-34321.	2.7	28
35	Effect of the Functionalization of the Axial Phthalocyanine Ligands on the Energy Transfer in QD-based Donor-Acceptor Pairs. <i>Photochemistry and Photobiology</i> , 2007, 84, 071117035358009-???	1.3	26
36	Detection of Alpha-Methylacyl-CoA Racemase (AMACR), a Biomarker of Prostate Cancer, in Patient Blood Samples Using a Nanoparticle Electrochemical Biosensor. <i>Biosensors</i> , 2012, 2, 377-387.	2.3	25

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37	Effect of metal precursor on the growth and electrochemical sensing properties of Pt@Ag nanoboxes. <i>Chemical Communications</i> , 2014, 50, 7295.	2.2	24
38	Effect of chloride substitution on interfacial charge transfer processes in MAPbI ₃ perovskite thin film solar cells: planar versus mesoporous. <i>Nanoscale Advances</i> , 2019, 1, 827-833.	2.2	21
39	Exploring the chelation-based plant strategy for iron oxide nanoparticle uptake in garden cress (<i>Lepidium sativum</i>) using magnetic particle spectrometry. <i>Nanoscale</i> , 2019, 11, 18582-18594.	2.8	21
40	Hybrid Platinum Nanobox/Carbon Nanotube Composites for Ultrasensitive Gas Sensing. <i>Small</i> , 2013, 9, 3928-3933.	5.2	20
41	Faraday rotation in Co _{0.85} Zn _{0.15} Fe ₂ O ₄ spinel ferrite nanoparticulate films under low applied fields. <i>Applied Physics Letters</i> , 2004, 84, 3115-3117.	1.5	19
42	The Effect of Ligand Constraints on the Metal-to-Ligand Charge-Transfer Relaxation Dynamics of Copper(I)-Phenanthroline Complexes: A Comparative Study by Femtosecond Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 563-569.	1.2	19
43	Di- and tri-component spinel ferrite nanocubes: synthesis and their comparative characterization for theranostic applications. <i>Nanoscale</i> , 2021, 13, 13665-13680.	2.8	18
44	Uncovering the Magnetic Particle Imaging and Magnetic Resonance Imaging Features of Iron Oxide Nanocube Clusters. <i>Nanomaterials</i> , 2021, 11, 62.	1.9	17
45	Visible-light Photodegradation of Higher Molecular Weight Organics on N-doped TiO ₂ Nanostructured Thin Films. <i>Topics in Catalysis</i> , 2008, 47, 42-48.	1.3	16
46	Photoactivated Gold Nanorod Hydrogel Composite Containing α -Amino Acids for the Complete Eradication of Bacterial Biofilms on Metal Alloy Implant Materials. <i>ACS Applied Nano Materials</i> , 2020, 3, 5862-5873.	2.4	16
47	A Novel Machine Learning Model to Predict the Photo-Degradation Performance of Different Photocatalysts on a Variety of Water Contaminants. <i>Catalysts</i> , 2021, 11, 1107.	1.6	16
48	A novel synthetic route for high-index faceted iron oxide concave nanocubes with high T ₂ relaxivity for in vivo MRI applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 58.	1.7	15
49	Experimental Evidence for the Photoisomerization of Higher Fullerenes. <i>Journal of the American Chemical Society</i> , 2002, 124, 12400-12401.	6.6	14
50	Detection of Lysyl Oxidase-Like 2 (LOXL2), a Biomarker of Metastasis from Breast Cancers Using Human Blood Samples. <i>Recent Patents on Biomarkers</i> , 2016, 5, 93-100.	0.3	14
51	Fabrication of Metal Nanoparticle-Modified Screen Printed Carbon Electrodes for the Evaluation of Hydrogen Peroxide Content in Teeth Whitening Strips. <i>Journal of Chemical Education</i> , 2015, 92, 1913-1917.	1.1	12
52	Water-Dispersible Fe ₃ O ₄ Nanoparticles Modified with Controlled Numbers of Carboxyl Moieties for Magnetic Induction Heating. <i>ACS Applied Nano Materials</i> , 2021, 4, 7395-7403.	2.4	11
53	Reactive Extrusion Strategies to Fabricate Magnetite@Polyethylene Nanocomposites with Enhanced Mechanical and Magnetic Hyperthermia Properties. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1525-1536.	1.7	9
54	Effect of the erbium dopant architecture on the femtosecond relaxation dynamics of silicon nanocrystals. <i>Journal of Chemical Physics</i> , 2004, 120, 8716-8723.	1.2	6

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55	Applications and challenges of using 3D printed implants for the treatment of birth defects. Birth Defects Research, 2018, 110, 1065-1081.	0.8	6
56	Frontiers in hybrid and interfacial materials chemistry research. MRS Bulletin, 2020, 45, 951-964.	1.7	6
57	Hyperthermia-mediated changes in the tumor immune microenvironment using iron oxide nanoparticles. Nanoscale Advances, 2021, 3, 5890-5899.	2.2	5
58	Standardized quantification of biofilm in a novel rabbit model of periprosthetic joint infection. Journal of Bone and Joint Infection, 2022, 7, 91-99.	0.6	5
59	Engineering of Au/Ag Nanostructures for Enhanced Electrochemical Performance. Journal of the Electrochemical Society, 2018, 165, B83-B88.	1.3	4
60	Magnetic particle spectroscopy of magnetite-polyethylene nanocomposite films: A novel sample for MPI tracer design. , 2013, , .		2
61	Modeling and Experimental Studies on Adsorption and Photocatalytic Performance of Nitrogen-Doped TiO ₂ Prepared via the Sol-Gel Method. Catalysts, 2020, 10, 1449.	1.6	2
62	Sensitivity Limits for ELISA Measurements of Molecular Biomarker Concentrations. International Journal on Magnetic Particle Imaging, 2017, 3, .	1.0	1