

Timothy Thatt Yang Tan

List of Publications by Year in descending order

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75
papers

4,610
citations

81434

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111975

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all docs

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docs citations

75
times ranked

8567
citing authors

#	ARTICLE	IF	CITATIONS
1	Scar prevention through topical delivery of gelatin-tyramine-siSPARC nanoplex loaded in dissolvable hyaluronic acid microneedle patch across skin barrier. <i>Biomaterials Science</i> , 2022, 10, 3963-3971.	2.6	10
2	Near-infrared-II activated inorganic photothermal nanomedicines. <i>Biomaterials</i> , 2021, 269, 120459.	5.7	94
3	Mechanistic studies of CsPbBr ₃ superstructure formation. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14699-14708.	2.7	7
4	Dye-Sensitized Lanthanide-Doped Upconversion Nanoparticles for Water Detection in Organic Solvents. <i>ACS Applied Nano Materials</i> , 2021, 4, 14069-14076.	2.4	7
5	Neodymium-Sensitized Nanoconstructs for Near-Infrared Enabled Photomedicine. <i>Small</i> , 2020, 16, e1905265.	5.2	28
6	Upconversion Nanoparticles-Based Multiplex Protein Activation to Neuron Ablation for Locomotion Regulation. <i>Small</i> , 2020, 16, e1906797.	5.2	16
7	Balancing the thickness of sensitizing and inert layers in neodymium-sensitized tetralayer nanoconstructs for optimal ultraviolet upconversion and near-infrared cross-linked hydrogel tissue sealants. <i>Biomaterials Science</i> , 2020, 8, 2878-2886.	2.6	5
8	An Upconversion Nanoparticle Enables Near Infrared-Optogenetic Manipulation of the <i>Caenorhabditis elegans</i> Motor Circuit. <i>ACS Nano</i> , 2019, 13, 3373-3386.	7.3	52
9	Generating New Cross-Relaxation Pathways by Coating Prussian Blue on NaNdF ₄ To Fabricate Enhanced Photothermal Agents. <i>Angewandte Chemie</i> , 2019, 131, 8624-8628.	1.6	9
10	Generating New Cross-Relaxation Pathways by Coating Prussian Blue on NaNdF ₄ To Fabricate Enhanced Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8536-8540.	7.2	64
11	Unraveling the cooperative synergy of zero-dimensional graphene quantum dots and metal nanocrystals enabled by layer-by-layer assembly. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1700-1713.	5.2	99
12	Layer-by-Layer 3D Constructs of Fibroblasts in Hydrogel for Examining Transdermal Penetration Capability of Nanoparticles. <i>SLAS Technology</i> , 2017, 22, 447-453.	1.0	31
13	Ultrasmall-Superbright Neodymium-Upconversion Nanoparticles via Energy Migration Manipulation and Lattice Modification: 808 nm-Activated Drug Release. <i>ACS Nano</i> , 2017, 11, 2846-2857.	7.3	99
14	A graphene/carbon nanotube biofilm based solar-microbial fuel device for enhanced hydrogen generation. <i>Sustainable Energy and Fuels</i> , 2017, 1, 191-198.	2.5	22
15	Supercritical carbon dioxide extracted extracellular matrix material from adipose tissue. <i>Materials Science and Engineering C</i> , 2017, 75, 349-358.	3.8	46
16	Fish scale-derived collagen patch promotes growth of blood and lymphatic vessels in vivo. <i>Acta Biomaterialia</i> , 2017, 63, 246-260.	4.1	48
17	Electropolymerization of Uniform Polyaniline Nanorod Arrays on Conducting Oxides as Counter Electrodes in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2016, 9, 172-176.	3.6	23
18	Layer-by-layer assembly of nitrogen-doped graphene quantum dots monolayer decorated one-dimensional semiconductor nanoarchitectures for solar-driven water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16383-16393.	5.2	59

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19	Graphene Oxide Quantum Dots Covalently Functionalized PVDF Membrane with Significantly-Enhanced Bactericidal and Antibiofouling Performances. <i>Scientific Reports</i> , 2016, 6, 20142.	1.6	136
20	A new strategy for achieving vertically-erected and hierarchical TiO ₂ nanosheets array/carbon cloth as a binder-free electrode for protein impregnation, direct electrochemistry and mediator-free glucose sensing. <i>Biosensors and Bioelectronics</i> , 2016, 77, 942-949.	5.3	26
21	A Periosteum-Inspired 3D Hydrogel-Bioceramic Composite for Enhanced Bone Regeneration. <i>Macromolecular Bioscience</i> , 2016, 16, 276-287.	2.1	22
22	Enhancement in hydrogen evolution using Au-TiO ₂ hollow spheres with microbial devices modified with conjugated oligoelectrolytes. <i>Npj Biofilms and Microbiomes</i> , 2015, 1, 15020.	2.9	11
23	One-Step Hydrothermal Tailoring of NiCo ₂ S ₄ Nanostructures on Conducting Oxide Substrates as an Efficient Counter Electrode in Dye-Sensitized Solar Cells. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500384.	1.9	83
24	Endothelial cell thrombogenicity is reduced by ATRP-mediated grafting of gelatin onto PCL surfaces. <i>Journal of Materials Chemistry B</i> , 2014, 2, 485-493.	2.9	27
25	A one-pot solvothermal synthesis of hierarchical microspheres with radially assembled single-crystalline TiO ₂ -nanorods for high performance dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1381-1385.	2.7	25
26	A metal-catalyst free, flexible and free-standing chitosan/vacuum-stripped graphene/polypyrrole three dimensional electrode interface for high performance dopamine sensing. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2478-2482.	2.9	33
27	Engineering lanthanide-based materials for nanomedicine. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014, 20, 71-96.	5.6	85
28	Cross Relaxation Induced Pure Red Upconversion in Activator- and Sensitizer-Rich Lanthanide Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 5183-5186.	3.2	195
29	Surface-up constructed tandem-inverted bilayer cyclodextrins for enhanced enantioseparation and adsorption. <i>Journal of Chromatography A</i> , 2014, 1343, 101-108.	1.8	13
30	Thiol-ene click chemistry derived cationic cyclodextrin chiral stationary phase and its enhanced separation performance in liquid chromatography. <i>Journal of Chromatography A</i> , 2014, 1326, 80-88.	1.8	73
31	Cytotoxicity of hydroxyapatite nanoparticles is shape and cell dependent. <i>Archives of Toxicology</i> , 2013, 87, 1037-1052.	1.9	215
32	Ion-Induced Synthesis of Uniform Single-Crystalline Sulphide-Based Quaternary-Alloy Hexagonal Nanorings for Highly Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2013, 25, 2567-2572.	11.1	45
33	Enhanced charge extraction of polymer solar cell by solution-processable gold nanoparticles. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5402-5409.	2.7	10
34	Understanding TiO ₂ Size-Dependent Electron Transport Properties of a Graphene-TiO ₂ Photoanode in Dye-Sensitized Solar Cells Using Conducting Atomic Force Microscopy. <i>Advanced Materials</i> , 2013, 25, 6900-6904.	11.1	43
35	Enantioselective separation of dansyl-dl-amino acids and some racemates on α -click-functionalized native β -cyclodextrin based sub-2 μ m columns. <i>Analyst</i> , 2013, 138, 2289.	1.7	20
36	Understanding the photoelectrochemical properties of a reduced graphene oxide-WO ₃ heterojunction photoanode for efficient solar-light-driven overall water splitting. <i>RSC Advances</i> , 2013, 3, 9330.	1.7	64

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37	Multifunctional P(PEGMA)-REDV conjugated titanium surfaces for improved endothelial cell selectivity and hemocompatibility. <i>Journal of Materials Chemistry B</i> , 2013, 1, 157-167.	2.9	43
38	An efficient visible and UV-light-activated N-codoped TiO ₂ photocatalytic film for solar depollution prepared via a green method. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	6
39	Architecture Engineering of Hierarchically Porous Chitosan/Vacuum-Stripped Graphene Scaffold as Bioanode for High Performance Microbial Fuel Cell. <i>Nano Letters</i> , 2012, 12, 4738-4741.	4.5	184
40	Recent development of cyclodextrin chiral stationary phases and their applications in chromatography. <i>Journal of Chromatography A</i> , 2012, 1269, 52-68.	1.8	213
41	Tuning sub-10 nm single-phase NaMnF ₃ nanocrystals as ultrasensitive hosts for pure intense fluorescence and excellent T ₁ magnetic resonance imaging. <i>Chemical Communications</i> , 2012, 48, 10322.	2.2	102
42	Single-Phase NaDyF ₄ :Tb ³⁺ Nanocrystals as Multifunctional Contrast Agents in High-Field Magnetic Resonance and Optical Imaging. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2044-2048.	1.0	29
43	Anti-angiogenic Angptl4 Ab-Conjugated NaTiO ₂ /NaYF ₄ :Yb,Tm Nanocomposite for Near Infrared-triggered Drug Release and Enhanced Targeted Cancer Cell Ablation. <i>Advanced Healthcare Materials</i> , 2012, 1, 470-474.	3.9	54
44	Sub-2 μ m porous silica materials for enhanced separation performance in liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1228, 99-109.	1.8	62
45	Preparation of cyclodextrin chiral stationary phases by organic soluble catalytic 'click' chemistry. <i>Nature Protocols</i> , 2011, 6, 935-942.	5.5	47
46	Single-Phase Dy ₂ O ₃ :Tb ³⁺ Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging. <i>Chemistry of Materials</i> , 2011, 23, 2439-2446.	3.2	76
47	A three-way synergy of triple-modified Bi ₂ WO ₆ /Ag/N-TiO ₂ nanojunction film for enhanced photogenerated charges utilization. <i>Chemical Communications</i> , 2011, 47, 8641.	2.2	39
48	Synthesis of Porous and Visible-Light Absorbing Bi ₂ WO ₆ /TiO ₂ Heterojunction Films with Improved Photoelectrochemical and Photocatalytic Performances. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7419-7428.	1.5	186
49	Nanostructure control of graphene-composited TiO ₂ by a one-step solvothermal approach for high performance dye-sensitized solar cells. <i>Nanoscale</i> , 2011, 3, 4613.	2.8	100
50	Enantioseparation of dansyl amino acids by ultra-high pressure liquid chromatography using cationic β -cyclodextrins as chiral additives. <i>Analyst</i> , The, 2011, 136, 1433.	1.7	26
51	Surface functionalization-enhanced spillover effect on hydrogen storage of Ni-B nanoalloy-doped activated carbon. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13663-13668.	3.8	42
52	Utilizing inverse micelles to synthesize calcium phosphate nanoparticles as nano-carriers. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3441-3454.	0.8	18
53	Bimodal magnetic-fluorescent probes for bioimaging. <i>Microscopy Research and Technique</i> , 2011, 74, 563-576.	1.2	83
54	Experimental and theoretical studies of Fe-doped TiO ₂ films prepared by peroxo sol-gel method. <i>Applied Catalysis A: General</i> , 2011, 401, 98-105.	2.2	46

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55	Enhanced photocatalytic activity of Ca ²⁺ -N-codoped TiO ₂ films prepared via an organic-free approach. <i>Journal of Hazardous Materials</i> , 2011, 188, 172-180.	6.5	55
56	Understanding bactericidal performance on ambient light activated TiO ₂ -InVO ₄ nanostructured films. <i>Nanoscale</i> , 2011, 3, 4977.	2.8	14
57	<i>In vitro</i> cytotoxicity evaluation of biomedical nanoparticles and their extracts. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 337-346.	2.1	28
58	Sub-1-micron mesoporous silica particles functionalized with cyclodextrin derivative for rapid enantioseparations on ultra-high pressure liquid chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 7502-7506.	1.8	46
59	Click-preparation of hindered cyclodextrin chiral stationary phases and their efficient resolution in high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 7878-7883.	1.8	41
60	Monodispersed submicron porous silica particles functionalized with CD derivatives for chiral CEC. <i>Electrophoresis</i> , 2010, 31, 378-387.	1.3	29
61	Synthesis and cytotoxic activities of chloropyridylimineplatinum(II) and chloropyridyliminecopper(II) surface-functionalized poly(amidoamine) dendrimers. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 105-110.	1.5	42
62	Transparent visible light activated Ca ²⁺ -N ³⁺ -F-codoped TiO ₂ films for self-cleaning applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 210, 181-187.	2.0	86
63	Click-immobilized perphenylcarbamated and permethylated cyclodextrin stationary phases for chiral high-performance liquid chromatography application. <i>Journal of Chromatography A</i> , 2010, 1217, 5103-5108.	1.8	51
64	Functional and Multifunctional Nanoparticles for Bioimaging and Biosensing. <i>Langmuir</i> , 2010, 26, 11631-11641.	1.6	295
65	Gadolinium Oxide Ultranarrow Nanorods as Multimodal Contrast Agents for Optical and Magnetic Resonance Imaging. <i>Langmuir</i> , 2010, 26, 8959-8965.	1.6	158
66	Superhydrophilicity-assisted preparation of transparent and visible light activated N-doped titania film. <i>Nanoscale</i> , 2010, 2, 1122.	2.8	27
67	Application of Click chemistry-based perphenylcarbamated β -CD chiral stationary phase in CEC. <i>Electrophoresis</i> , 2009, 30, 705-711.	1.3	33
68	Synthesis and application of a novel single-isomer mono-6-deoxy-6-(3R,4R-dihydroxypyrrolidine)- β -cyclodextrin chloride as a chiral selector in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2009, 1216, 994-999.	1.8	27
69	Enantioseparation of a novel click chemistry derived native β -cyclodextrin chiral stationary phase for high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2009, 1216, 2388-2393.	1.8	66
70	Tb-doped iron oxide: bifunctional fluorescent and magnetic nanocrystals. <i>Journal of Materials Chemistry</i> , 2009, 19, 3696.	6.7	51
71	Click chemistry for facile immobilization of cyclodextrin derivatives onto silica as chiral stationary phases. <i>Tetrahedron Letters</i> , 2008, 49, 5190-5191.	0.7	74
72	Effect of silver on the photocatalytic degradation of humic acid. <i>Catalysis Today</i> , 2008, 131, 250-254.	2.2	37

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73	Rare-Earth-Doped and Codoped Y ₂ O ₃ Nanomaterials as Potential Bioimaging Probes. Journal of Physical Chemistry C, 2008, 112, 11211-11217.	1.5	167
74	Atomic layer deposition of TiO ₂ nanostructures for self-cleaning applications. Nanotechnology, 2008, 19, 445604.	1.3	25
75	Y ₂ O ₃ :Tb Nanocrystals Self-Assembly into Nanorods by Oriented Attachment Mechanism. Journal of Physical Chemistry C, 2007, 111, 7893-7897.	1.5	57