Yan-Yan Song

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/72014/publications.pdf

Version: 2024-02-01

113 papers	5,806 citations	76326 40 h-index	79698 73 g-index
116 all docs	116 docs citations	116 times ranked	7376 citing authors

#	Article	IF	Citations
1	Hydrogen bubble dynamic template synthesis of porous gold for nonenzymatic electrochemical detection of glucose. Electrochemistry Communications, 2007, 9, 981-988.	4.7	477
2	Amphiphilic TiO₂Nanotube Arrays: An Actively Controllable Drug Delivery System. Journal of the American Chemical Society, 2009, 131, 4230-4232.	13.7	399
3	Superhydrophobicity of 3D Porous Copper Films Prepared Using the Hydrogen Bubble Dynamic Template. Chemistry of Materials, 2007, 19, 5758-5764.	6.7	313
4	Nonenzymatic Glucose Detection by Using a Three-Dimensionally Ordered, Macroporous Platinum Template. Chemistry - A European Journal, 2005, 11, 2177-2182.	3.3	243
5	Defectâ€Rich Nitrogen Doped Co₃O₄/C Porous Nanocubes Enable Highâ€Efficiency Bifunctional Oxygen Electrocatalysis. Advanced Functional Materials, 2019, 29, 1902875.	14.9	233
6	Synthesis of Magnetically Separable Ag₃PO₄/TiO₂/Fe₃O₄ Heterostructure with Enhanced Photocatalytic Performance under Visible Light for Photoinactivation of Bacteria. ACS Applied Materials & Interfaces, 2014, 6, 15122-15131.	8.0	197
7	Fine-tunable Ni@porous silica coreâ€“shell nanocatalysts: Synthesis, characterization, and catalytic properties in partial oxidation of methane to syngas. Journal of Catalysis, 2012, 288, 54-64.	6.2	144
8	Facile Method To Fabricate a Large-Scale Superhydrophobic Surface by Galvanic Cell Reaction. Chemistry of Materials, 2006, 18, 1365-1368.	6.7	138
9	Semimetallic TiO₂ Nanotubes. Angewandte Chemie - International Edition, 2009, 48, 7236-7239.	13.8	133
10	Multistage Coloring Electrochromic Device Based on TiO₂ Nanotube Arrays Modified with WO₃ Nanoparticles. Advanced Functional Materials, 2011, 21, 1941-1946.	14.9	123
11	Highly uniform Pt nanoparticle decoration on TiO2 nanotube arrays: A refreshable platform for methanol electrooxidation. Electrochemistry Communications, 2011, 13, 290-293.	4.7	114
12	Voltageâ€Induced Payload Release and Wettability Control on TiO₂ and TiO₂ Nanotubes. Angewandte Chemie - International Edition, 2010, 49, 351-354.	13.8	110
13	Insight of MOF Environment-Dependent Enzyme Activity via MOFs-in-Nanochannels Configuration. ACS Catalysis, 2020, 10, 5949-5958.	11.2	102
14	Optimized monolayer grafting of 3-aminopropyltriethoxysilane onto amorphous, anatase and rutile TiO2. Surface Science, 2010, 604, 346-353.	1.9	100
15	Co₃O₄-doped Co/CoFe nanoparticles encapsulated in carbon shells as bifunctional electrocatalysts for rechargeable Znâ€“Air batteries. Journal of Materials Chemistry A, 2018, 6, 3730-3737.	10.3	98
16	Modulated TiO2 nanotube stacks and their use in interference sensors. Electrochemistry Communications, 2010, 12, 579-582.	4.7	95
17	Visibleâ€Lightâ€Triggered Drug Release from TiO₂ Nanotube Arrays: A Controllable Antibacterial Platform. Angewandte Chemie - International Edition, 2016, 55, 593-597.	13.8	94
18	Upconversion Nanoparticle-Assisted Payload Delivery from TiO₂ under Near-Infrared Light Irradiation for Bacterial Inactivation. ACS Nano, 2020, 14, 337-346.	14.6	87

#	Article	IF	Citations
19	Co₄N Nanowires: Noble-Metal-Free Peroxidase Mimetic with Excellent Salt- and Temperature-Resistant Abilities. ACS Applied Materials & Interfaces, 2017, 9, 29881-29888.	8.0	86
20	TiO₂ Nano Test Tubes as a Selfâ€Cleaning Platform for Highâ€Sensitivity Immunoassays. Small, 2010, 6, 1180-1184.	10.0	78
21	Electrochromic-Tuned Plasmonics for Photothermal Sterile Window. ACS Nano, 2018, 12, 6895-6903.	14.6	76
22	Coreâ€“shell structured microcapsular-like Ru@SiO2 reactor for efficient generation of COx-free hydrogen through ammonia decomposition. Chemical Communications, 2010, 46, 5298.	4.1	71
23	Graphitic C₃N₄â€Sensitized TiO₂ Nanotube Layers: A Visibleâ€Light Activated Efficient Metalâ€Free Antimicrobial Platform. Chemistry - A European Journal, 2016, 22, 3947-3951.	3.3	66
24	Semiconductor supported biomimetic superhydrophobic gold surfaces by the galvanic exchange reaction. Surface Science, 2006, 600, 38-42.	1.9	65
25	Development of Amperometric Glucose Biosensor Based on Prussian Blue Functionlized TiO2 Nanotube Arrays. Scientific Reports, 2014, 4, 6891.	3.3	65
26	TiO[sub 2] Nanotubes: Efficient Suppression of Top Etching during Anodic Growth. Electrochemical and Solid-State Letters, 2009, 12, C17.	2.2	63
27	Metallic CoO/Co heterostructures stabilized in an ultrathin amorphous carbon shell for high-performance electrochemical supercapacitive behaviour. Journal of Materials Chemistry A, 2019, 7, 372-380.	10.3	60
28	Ultrathin CoS 2 shells anchored on Co 3 O 4 nanoneedles for efficient hydrogen evolution electrocatalysis. Journal of Power Sources, 2017, 356, 89-96.	7.8	56
29	Signal-amplified platform for electrochemical immunosensor based on TiO2 nanotube arrays using a HRP tagged antibody-Au nanoparticles as probe. Biosensors and Bioelectronics, 2013, 41, 771-775.	10.1	54
30	Nickel Hydroxide Nanoparticle Activated Semiâ€metallic TiO₂ Nanotube Arrays for Nonâ€enzymatic Glucose Sensing. Chemistry - A European Journal, 2013, 19, 15530-15534.	3.3	51
31	Exploiting Free-Standing p-CuO/n-TiO₂ Nanochannels as a Flexible Gas Sensor with High Sensitivity for H₂S at Room Temperature. ACS Sensors, 2021, 6, 3387-3397.	7.8	51
32	Galvanic Deposition of Nanostructured Noble-Metal Films on Silicon. Electrochemical and Solid-State Letters, 2005, 8, C148.	2.2	50
33	A niobium oxide with a shear structure and planar defects for high-power lithium ion batteries. Energy and Environmental Science, 2022, 15, 254-264.	30.8	50
34	Boosting the oxygen evolution reaction performance of CoS₂ microspheres by subtle ionic liquid modification. Chemical Communications, 2018, 54, 8765-8768.	4.1	49
35	Target-Driven Nanozyme Growth in TiO₂ Nanochannels for Improving Selectivity in Electrochemical Biosensing. Analytical Chemistry, 2020, 92, 10033-10041.	6.5	49
36	Engineering Homochiral MOFs in TiO₂ Nanotubes as Enantioselective Photoelectrochemical Electrode for Chiral Recognition. Analytical Chemistry, 2021, 93, 12067-12074.	6.5	49

#	Article	IF	Citations
37	Carbon cladded TiO₂ nanotubes: fabrication and use in 3D-RuO₂ based supercapacitors. Chemical Communications, 2015, 51, 7614-7617.	4.1	46
38	NIR Light-Driven Photocatalysis on Amphiphilic TiO₂ Nanotubes for Controllable Drug Release. ACS Applied Materials & Interfaces, 2020, 12, 23606-23616.	8.0	45
39	One-Step to Prepare Self-Organized Nanoporous NiO/TiO2 Layers and its Use in Non-Enzymatic Glucose Sensing. Scientific Reports, 2013, 3, 3323.	3.3	41
40	Surface electric field manipulation of the adsorption kinetics and biocatalytic properties of cytochrome c on a 3D macroporous Au electrode. Analytical and Bioanalytical Chemistry, 2008, 390, 333-341.	3.7	40
41	CdS nanocrystals functionalized TiO2 nanotube arrays: Novel electrochemiluminescence platforms for ultrasensitive immunosensors. Electrochemistry Communications, 2012, 16, 44-48.	4.7	40
42	Covalent functionalization of TiO2 nanotube arrays with EGF and BMP-2 for modified behavior towards mesenchymal stem cells. Integrative Biology (United Kingdom), 2011, 3, 927.	1.3	39
43	Engineering large-scaled electrochromic semiconductor films as reproductive SERS substrates for operando investigation at the solid/liquid interfaces. Chinese Chemical Letters, 2022, 33, 5169-5173.	9.0	39
44	Biotemplated synthesis of Au nanoparticlesâ€“TiO2nanotube junctions for enhanced direct electrochemistry of heme proteins. Chemical Communications, 2013, 49, 774-776.	4.1	38
45	Nickelâ€“Cobalt Hydrogen Phosphate on Nickel Nitride Supported on Nickel Foam for Alkaline Seawater Electrolysis. ACS Applied Materials & Interfaces, 2022, 14, 22061-22070.	8.0	38
46	A self-cleaning nonenzymatic glucose detection system based on titania nanotube arrays modified with platinum nanoparticles. Electrochemistry Communications, 2011, 13, 1217-1220.	4.7	37
47	Protein Shell-Encapsulated Pt Clusters as Continuous O₂-Supplied Biocoats for Photodynamic Therapy in Hypoxic Cancer Cells. ACS Applied Materials & Interfaces, 2019, 11, 17215-17225.	8.0	37
48	Intracellular Metalâ€“Organic Frameworks: Integrating an All-In-One Semiconductor Electrode Chip for Therapy, Capture, and Quantification of Circulating Tumor Cells. Analytical Chemistry, 2020, 92, 13319-13326.	6.5	36
49	TiO2 nanotubes modified with Au nanoparticles for visible-light enhanced antibacterial and anti-inflammatory capabilities. Journal of Electroanalytical Chemistry, 2019, 842, 66-73.	3.8	34
50	Constructing a photo-enzymatic cascade reaction and its in situ monitoring: enzymes hierarchically trapped in titania meso-porous MOFs as a new photosynthesis platform. Journal of Materials Chemistry A, 2021, 9, 14911-14919.	10.3	32
51	Construction of Peroxidase-like Metalâ€“Organic Frameworks in TiO₂ Nanochannels: Robust Free-Standing Membranes for Diverse Target Sensing. Analytical Chemistry, 2021, 93, 9486-9494.	6.5	32
52	Near Infrared Light-Driven Photothermal Effect on Homochiral Au/TiO₂ Nanotube Arrays for Enantioselective Desorption. Analytical Chemistry, 2022, 94, 588-592.	6.5	32
53	Signal-On Electrochemiluminescence of Self-Ordered Molybdenum Oxynitride Nanotube Arrays for Label-Free Cytosensing. Analytical Chemistry, 2018, 90, 10858-10864.	6.5	31
54	Modulating Solar Energy Harvesting on TiO₂ Nanochannel Membranes by Plasmonic Nanoparticle Assembly for Desalination of Contaminated Seawater. ACS Applied Nano Materials, 2020, 3, 10895-10904.	5.0	31

#	Article	IF	Citations
55	Ptâ€Decorated gâ€C₃N₄/TiO₂ Nanotube Arrays with Enhanced Visibleâ€Light Photocatalytic Activity for H₂ Evolution. ChemistryOpen, 2016, 5, 197-200.	1.9	30
56	Biomineralization-Driven Ion Gate in TiO₂ Nanochannel Arrays for Cell H₂S Sensing. Analytical Chemistry, 2019, 91, 13746-13751.	6.5	30
57	Highly selective amperometric glucose microdevice derived from diffusion layer gap electrode. Biosensors and Bioelectronics, 2008, 23, 892-898.	10.1	28
58	Renewable photoelectrochemical cytosensing platform for rapid capture and detection of circulating tumor cells. Analytica Chimica Acta, 2021, 1142, 1-9.	5.4	28
59	Deployment of MIL-88B(Fe)/TiO₂ Nanotube-Supported Ti Wires as Reusable Electrochemiluminescence Microelectrodes for Noninvasive Sensing of H₂O₂ from Single Cancer Cells. Analytical Chemistry, 2021, 93, 11312-11320.	6.5	28
60	Direct Electron Transfer of Thiol-Derivatized Tetraphenylporphyrin Assembled on Gold Electrodes in an Aqueous Solution. Journal of Physical Chemistry C, 2009, 113, 9359-9367.	3.1	26
61	Fabrication of Homochiral Metalâ€“Organic Frameworks in TiO₂ Nanochannels for In Situ Identification of 3,4-Dihydroxyphenylalanine Enantiomers. Analytical Chemistry, 2021, 93, 11515-11524.	6.5	25
62	Photoinduced release of active proteins from TiO2 surfaces. Electrochemistry Communications, 2009, 11, 1429-1433.	4.7	24
63	Plasmon-Triggered Hot-Spot Excitation on SERS Substrates for Bacterial Inactivation and in Situ Monitoring. ACS Applied Materials & Interfaces, 2018, 10, 25219-25227.	8.0	24
64	Direct access to NiCo-LDH nanosheets by electrochemical-scanning-mediated hydrolysis for photothermally enhanced energy storage capacity. Energy Storage Materials, 2022, 48, 487-496.	18.0	24
65	Understanding of chiral site-dependent enantioselective identification on a plasmon-free semiconductor based SERS substrate. Chemical Science, 2022, 13, 6550-6557.	7.4	24
66	Photosynthesis and characterization of Prussian blue nanocubes on surfaces of TiO2 colloids. Applied Physics Letters, 2006, 88, 053112.	3.3	22
67	Wireless Battery-Free Generation of Electric Fields on One-Dimensional Asymmetric Au/ZnO Nanorods for Enhanced Raman Sensing. Analytical Chemistry, 2021, 93, 9286-9295.	6.5	22
68	Carbon-Decorated TiO₂ Nanotube Membranes: A Renewable Nanofilter for Charge-Selective Enrichment of Proteins. ACS Applied Materials & Interfaces, 2016, 8, 21997-22004.	8.0	21
69	Photocatalytic synthesis and synergistic effect of Prussian blue-decorated Au nanoparticles/TiO2 nanotube arrays for H2O2 amperometric sensing. Electrochimica Acta, 2014, 125, 530-535.	5.2	20
70	Engineering tailorable TiO2 nanotubes for NIR-controlled drug delivery. Nano Research, 2021, 14, 4046.	10.4	20
71	MOF-Derived Fe-Doped Ni@NC Hierarchical Hollow Microspheres as an Efficient Electrocatalyst for Alkaline Oxygen Evolution Reaction. ACS Omega, 2021, 6, 11077-11082.	3.5	20
72	Insight of the Influence of Magnetic-Field Direction on Magneto-Plasmonic Interfaces for Tuning Photocatalytical Performance of Semiconductors. Journal of Physical Chemistry Letters, 2020, 11, 9931-9937.	4.6	20

#	Article	IF	Citations
73	Facile method to synthesize a carbon layer embedded into titanium dioxide nanotubes with metal oxide decoration for electrochemical applications. Journal of Materials Chemistry A, 2015, 3, 23754-23759.	10.3	19
74	Introducing graphitic carbon nitride nanosheets as supersandwich-type assembly on porous electrode for ultrasensitive electrochemiluminescence immunosensing. Analytica Chimica Acta, 2020, 1097, 62-70.	5.4	18
75	In Situ Monitoring of the â€œPoint Dischargeâ€•Induced Antibacterial Process by the Onsite Formation of a Raman Probe. Analytical Chemistry, 2020, 92, 2323-2330.	6.5	18
76	Enhanced Electrochemical N₂ Reduction to NH₃ on Reduced Graphene Oxide by Tannic Acid Modification. ACS Sustainable Chemistry and Engineering, 2019, 7, 14368-14372.	6.7	17
77	Surface-charge regulated TiO2 nanotube arrays as scaffold for constructing binder-free high-performance supercapacitor. Applied Surface Science, 2021, 567, 150832.	6.1	17
78	Nitrogen-doped carbon nanospheres derived from cocoon silk as metal-free electrocatalyst for glucose sensing. Talanta, 2015, 144, 1245-1251.	5.5	15
79	A portable dual-mode sensor based on a TiO₂ nanotube membrane for the evaluation of telomerase activity. Chemical Communications, 2019, 55, 10571-10574.	4.1	15
80	Designing ultrafine PdCo alloys in mesoporous silica nanospheres with peroxidase-like activity and catalase-like activity. Journal of Materials Chemistry B, 2021, 9, 2016-2024.	5.8	15
81	Nature-inspired mineralization of a wood membrane as a sensitive electrochemical sensing device for in situ recognition of chiral molecules. Green Chemistry, 2021, 23, 8685-8693.	9.0	15
82	Tuning the surface segregation composition of a PdCo alloy by the atmosphere for increasing electrocatalytic activity. Sustainable Energy and Fuels, 2020, 4, 380-386.	4.9	13
83	A Nonstoichiometric Niobium Oxide/Graphite Composite for Fastâ€Charge Lithiumâ€Ion Batteries. Small, 2022, 18, .	10.0	13
84	Asymmetric coupling of Au nanospheres on TiO₂ nanochannel membranes for NIR-gated artificial ionic nanochannels. Chemical Communications, 2019, 55, 14625-14628.	4.1	12
85	Needle-like Co3O4 nanoarrays as a dual-responsive amperometric sensor for enzyme-free detection of glucose and phosphate anion. Journal of Electroanalytical Chemistry, 2021, 897, 115605.	3.8	12
86	Engineering hierarchical FeS2/TiO2 nanotubes on Ti mesh as a tailorable flow-through catalyst belt for all-day-active degradation of organic pollutants and pathogens. Journal of Hazardous Materials, 2022, 438, 129501.	12.4	12
87	Electrochemical protonation/de-protonation of titania nanotubes decorated with silver phosphate crystals: An enhanced electrochromic color contrast. Optical Materials, 2015, 40, 112-117.	3.6	10
88	Protein-mediated synthesis of antibacterial silver nanoparticles deposited on titanium dioxide nanotube arrays. Mikrochimica Acta, 2012, 177, 129-135.	5.0	9
89	Asymmetrically coating Pt nanoparticles on magnetic silica nanospheres for target cell capture and therapy. Mikrochimica Acta, 2021, 188, 361.	5.0	9
90	Atomic layer deposition of ultra-trace Pt catalysts onto a titanium nitride nanowire array for electrocatalytic methanol oxidation. Chemical Communications, 2019, 55, 13283-13286.	4.1	8

#	Article	IF	Citations
91	Rapid Capture and Photocatalytic Inactivation of Target Cells from Whole Blood by Rotating Janus Nanotubes. ACS Applied Materials & Interfaces, 2021, 13, 12972-12981.	8.0	8
92	Nanoarchitectonics of a MOF-in-Nanochannel (HKUST-1/TiO₂) Membrane for Multitarget Selective Enrichment and Staged Recovery. ACS Applied Materials & Interfaces, 2022, 14, 22006-22015.	8.0	8
93	Diffusion layer based probe-in-tube microdevice for selective analysis of electroactive species. Electrochemistry Communications, 2007, 9, 1553-1557.	4.7	7
94	Pt nanoparticle-coupled WO2.72 nanoplates as multi-enzyme mimetics for colorimetric detection and radical elimination. Analytical and Bioanalytical Chemistry, 2020, 412, 521-530.	3.7	7
95	Boosting the Raman signal on a semiconductor-nanotube membrane for reporting photocatalytic reactions on site. Chemical Communications, 2020, 56, 10333-10336.	4.1	7
96	Boosting the Local Temperature of Hybrid Prussian Blue/NiO Nanotubes by Solar Light: Effect on Energy Storage. ACS Sustainable Chemistry and Engineering, 2021, 9, 11837-11846.	6.7	7
97	Anion-exchange reactions: facile and general access to sensitive photoelectrochemical platforms for biomarker immunosensing. Journal of Materials Chemistry B, 2017, 5, 5145-5151.	5.8	7
98	Signal Amplification Strategy Based on TiO₂â€Nanotube Layers and Nanobeads Carrying Quantum Dots for Electrochemiluminescent Immunosensors. ChemistryOpen, 2013, 2, 93-98.	1.9	6
99	Atomic Layer Deposition of NiO on Selfâ€Supported Co₃O₄ Nanoneedle Array for Electrocatalytic Methanol Oxidation Reaction. Energy Technology, 2021, 9, 2100112.	3.8	6
100	Simultaneous enrichment and separation based on ion concentration polarization effect on a paper based analytical device. Analytica Chimica Acta, 2022, 1208, 339844.	5.4	6
101	Filling foaming agent into stacked layers: Rapid synthesis of graphitic carbon nitride nanosheets decorated with ultrafined MXY (Xâ€¯=â€¯O, S) nanoparticles for enhanced photoresponsive abilities. Journal of Electroanalytical Chemistry, 2018, 826, 52-59.	3.8	5
102	Porous anodic alumina: Amphiphilic and magnetically guidable micro-rafts. Electrochemistry Communications, 2011, 13, 934-937.	4.7	3
103	Post-infiltration of a multilayered carbon nanofilm with MnO 2 at low loadings for improved capacitive properties. Journal of Power Sources, 2017, 354, 108-115.	7.8	3
104	An anion exchange reaction: an effective approach to prepare alloyed Coâ€“Fe bimetallic disulfide for improving the electrocatalytic activity. Chemical Communications, 2019, 55, 7615-7618.	4.1	3
105	â€œBlack bodyâ€•effect of carbon nanospheres: A broadband energy acceptor in constructing electrochemiluminescence resonance energy transfer for biosensing. Journal of Electroanalytical Chemistry, 2020, 877, 114727.	3.8	3
106	Development of a pulse-induced electrochemical biosensor based on gluconamide for Gram-negative bacteria detection. Mikrochimica Acta, 2021, 188, 399.	5.0	3
107	Construction of Bi-component CoNi nanosheet coated TiO2 nanotube arrays for photocatalysis-assisted poisoning tolerance toward methanol oxidation reaction. Catalysis Today, 2022, 403, 28-38.	4.4	3
108	Biocompatible Functional Nanomaterials: Synthesis, Properties, and Applications. Journal of Nanomaterials, 2013, 2013, 1-1.	2.7	2

#	Article	IF	Citations
109	TiO2 Nano-test tubes as a solid visual platform for sensitive Pb2+ ion detection based on a fluorescence resonance energy transfer (FRET) process. Analytical and Bioanalytical Chemistry, 2021, 413, 3583-3593.	3.7	1
110	Facile synthesis of Pt/TiO<inf>2</inf> nanotube arrays: A reusable platform for direct methanol fuel cell. , 2011, , .		0
111	Ultrasensitive Immunosensor Based on Electrogenerated Chemiluminescence Quenching of CdS/TiO2 Nanotube Arrays for Detection of Antigen. , 2012, , .		0
112	Dual Signal Amplification Based on TiO2 Nanotube Layers and CdTe Quantum Dots for Electrochemiluminescent Immunosensing. , 2013, , .		0
113	Ultrathin Carbon Shell Entrapped Metal Co/Coo for High-Performance Electrochemical Supercapacitor. ECS Meeting Abstracts, 2019, , .	0.0	0