

Yan-Yan Song

List of Publications by Year in descending order

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113
papers

5,806
citations

76294

40
h-index

79644

73
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116
all docs

116
docs citations

116
times ranked

7376
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction of Bi-component CoNi nanosheet coated TiO ₂ nanotube arrays for photocatalysis-assisted poisoning tolerance toward methanol oxidation reaction. <i>Catalysis Today</i> , 2022, 403, 28-38.	2.2	3
2	A niobium oxide with a shear structure and planar defects for high-power lithium ion batteries. <i>Energy and Environmental Science</i> , 2022, 15, 254-264.	15.6	50
3	Engineering large-scaled electrochromic semiconductor films as reproductive SERS substrates for operando investigation at the solid/liquid interfaces. <i>Chinese Chemical Letters</i> , 2022, 33, 5169-5173.	4.8	39
4	Direct access to NiCo-LDH nanosheets by electrochemical-scanning-mediated hydrolysis for photothermally enhanced energy storage capacity. <i>Energy Storage Materials</i> , 2022, 48, 487-496.	9.5	24
5	Near Infrared Light-Driven Photothermal Effect on Homochiral Au/TiO ₂ Nanotube Arrays for Enantioselective Desorption. <i>Analytical Chemistry</i> , 2022, 94, 588-592.	3.2	32
6	Simultaneous enrichment and separation based on ion concentration polarization effect on a paper based analytical device. <i>Analytica Chimica Acta</i> , 2022, 1208, 339844.	2.6	6
7	Understanding of chiral site-dependent enantioselective identification on a plasmon-free semiconductor based SERS substrate. <i>Chemical Science</i> , 2022, 13, 6550-6557.	3.7	24
8	Nanoarchitectonics of a MOF-in-Nanochannel (HKUST-1/TiO ₂) Membrane for Multitarget Selective Enrichment and Staged Recovery. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22006-22015.	4.0	8
9	Nickel-Cobalt Hydrogen Phosphate on Nickel Nitride Supported on Nickel Foam for Alkaline Seawater Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22061-22070.	4.0	38
10	A Nonstoichiometric Niobium Oxide/Graphite Composite for Fast-Charge Lithium-Ion Batteries. <i>Small</i> , 2022, 18, .	5.2	13
11	Engineering hierarchical FeS ₂ /TiO ₂ nanotubes on Ti mesh as a tailorable flow-through catalyst belt for all-day-active degradation of organic pollutants and pathogens. <i>Journal of Hazardous Materials</i> , 2022, 438, 129501.	6.5	12
12	Renewable photoelectrochemical cytosensing platform for rapid capture and detection of circulating tumor cells. <i>Analytica Chimica Acta</i> , 2021, 1142, 1-9.	2.6	28
13	Designing ultrafine PdCo alloys in mesoporous silica nanospheres with peroxidase-like activity and catalase-like activity. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2016-2024.	2.9	15
14	Constructing a photo-enzymatic cascade reaction and its <i>in situ</i> monitoring: enzymes hierarchically trapped in titania meso-porous MOFs as a new photosynthesis platform. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14911-14919.	5.2	32
15	Engineering tailorable TiO ₂ nanotubes for NIR-controlled drug delivery. <i>Nano Research</i> , 2021, 14, 4046.	5.8	20
16	Rapid Capture and Photocatalytic Inactivation of Target Cells from Whole Blood by Rotating Janus Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12972-12981.	4.0	8
17	TiO ₂ Nano-test tubes as a solid visual platform for sensitive Pb ²⁺ ion detection based on a fluorescence resonance energy transfer (FRET) process. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3583-3593.	1.9	1
18	MOF-Derived Fe-Doped Ni@NC Hierarchical Hollow Microspheres as an Efficient Electrocatalyst for Alkaline Oxygen Evolution Reaction. <i>ACS Omega</i> , 2021, 6, 11077-11082.	1.6	20

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19	Atomic Layer Deposition of NiO on Self-Supported Co ₃ O ₄ Nanoneedle Array for Electrocatalytic Methanol Oxidation Reaction. <i>Energy Technology</i> , 2021, 9, 2100112.	1.8	6
20	Construction of Peroxidase-like Metal-Organic Frameworks in TiO ₂ Nanochannels: Robust Free-Standing Membranes for Diverse Target Sensing. <i>Analytical Chemistry</i> , 2021, 93, 9486-9494.	3.2	32
21	Wireless Battery-Free Generation of Electric Fields on One-Dimensional Asymmetric Au/ZnO Nanorods for Enhanced Raman Sensing. <i>Analytical Chemistry</i> , 2021, 93, 9286-9295.	3.2	22
22	Deployment of MIL-88B(Fe)/TiO ₂ Nanotube-Supported Ti Wires as Reusable Electrochemiluminescence Microelectrodes for Noninvasive Sensing of H ₂ O ₂ from Single Cancer Cells. <i>Analytical Chemistry</i> , 2021, 93, 11312-11320.	3.2	28
23	Engineering Homochiral MOFs in TiO ₂ Nanotubes as Enantioselective Photoelectrochemical Electrode for Chiral Recognition. <i>Analytical Chemistry</i> , 2021, 93, 12067-12074.	3.2	49
24	Exploiting Free-Standing p-CuO/n-TiO ₂ Nanochannels as a Flexible Gas Sensor with High Sensitivity for H ₂ S at Room Temperature. <i>ACS Sensors</i> , 2021, 6, 3387-3397.	4.0	51
25	Fabrication of Homochiral Metal-Organic Frameworks in TiO ₂ Nanochannels for <i>In Situ</i> Identification of 3,4-Dihydroxyphenylalanine Enantiomers. <i>Analytical Chemistry</i> , 2021, 93, 11515-11524.	3.2	25
26	Boosting the Local Temperature of Hybrid Prussian Blue/NiO Nanotubes by Solar Light: Effect on Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11837-11846.	3.2	7
27	Needle-like Co ₃ O ₄ nanoarrays as a dual-responsive amperometric sensor for enzyme-free detection of glucose and phosphate anion. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115605.	1.9	12
28	Surface-charge regulated TiO ₂ nanotube arrays as scaffold for constructing binder-free high-performance supercapacitor. <i>Applied Surface Science</i> , 2021, 567, 150832.	3.1	17
29	Nature-inspired mineralization of a wood membrane as a sensitive electrochemical sensing device for <i>in situ</i> recognition of chiral molecules. <i>Green Chemistry</i> , 2021, 23, 8685-8693.	4.6	15
30	Asymmetrically coating Pt nanoparticles on magnetic silica nanospheres for target cell capture and therapy. <i>Mikrochimica Acta</i> , 2021, 188, 361.	2.5	9
31	Development of a pulse-induced electrochemical biosensor based on gluconamide for Gram-negative bacteria detection. <i>Mikrochimica Acta</i> , 2021, 188, 399.	2.5	3
32	Introducing graphitic carbon nitride nanosheets as supersandwich-type assembly on porous electrode for ultrasensitive electrochemiluminescence immunosensing. <i>Analytica Chimica Acta</i> , 2020, 1097, 62-70.	2.6	18
33	Tuning the surface segregation composition of a PdCo alloy by the atmosphere for increasing electrocatalytic activity. <i>Sustainable Energy and Fuels</i> , 2020, 4, 380-386.	2.5	13
34	In Situ Monitoring of the "Point Discharge"-Induced Antibacterial Process by the Onsite Formation of a Raman Probe. <i>Analytical Chemistry</i> , 2020, 92, 2323-2330.	3.2	18
35	Pt nanoparticle-coupled WO _{2.72} nanoplates as multi-enzyme mimetics for colorimetric detection and radical elimination. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 521-530.	1.9	7
36	Upconversion Nanoparticle-Assisted Payload Delivery from TiO ₂ under Near-Infrared Light Irradiation for Bacterial Inactivation. <i>ACS Nano</i> , 2020, 14, 337-346.	7.3	87

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37	Modulating Solar Energy Harvesting on TiO ₂ Nanochannel Membranes by Plasmonic Nanoparticle Assembly for Desalination of Contaminated Seawater. <i>ACS Applied Nano Materials</i> , 2020, 3, 10895-10904.	2.4	31
38	“Black body” effect of carbon nanospheres: A broadband energy acceptor in constructing electrochemiluminescence resonance energy transfer for biosensing. <i>Journal of Electroanalytical Chemistry</i> , 2020, 877, 114727.	1.9	3
39	Boosting the Raman signal on a semiconductor-nanotube membrane for reporting photocatalytic reactions on site. <i>Chemical Communications</i> , 2020, 56, 10333-10336.	2.2	7
40	Intracellular Metal-Organic Frameworks: Integrating an All-In-One Semiconductor Electrode Chip for Therapy, Capture, and Quantification of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2020, 92, 13319-13326.	3.2	36
41	Insight of MOF Environment-Dependent Enzyme Activity via MOFs-in-Nanochannels Configuration. <i>ACS Catalysis</i> , 2020, 10, 5949-5958.	5.5	102
42	Target-Driven Nanozyme Growth in TiO ₂ Nanochannels for Improving Selectivity in Electrochemical Biosensing. <i>Analytical Chemistry</i> , 2020, 92, 10033-10041.	3.2	49
43	NIR Light-Driven Photocatalysis on Amphiphilic TiO ₂ Nanotubes for Controllable Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23606-23616.	4.0	45
44	Insight of the Influence of Magnetic-Field Direction on Magneto-Plasmonic Interfaces for Tuning Photocatalytic Performance of Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9931-9937.	2.1	20
45	Enhanced Electrochemical N ₂ Reduction to NH ₃ on Reduced Graphene Oxide by Tannic Acid Modification. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14368-14372.	3.2	17
46	A portable dual-mode sensor based on a TiO ₂ nanotube membrane for the evaluation of telomerase activity. <i>Chemical Communications</i> , 2019, 55, 10571-10574.	2.2	15
47	Biom mineralization-Driven Ion Gate in TiO ₂ Nanochannel Arrays for Cell H ₂ S Sensing. <i>Analytical Chemistry</i> , 2019, 91, 13746-13751.	3.2	30
48	Metallic CoO/Co heterostructures stabilized in an ultrathin amorphous carbon shell for high-performance electrochemical supercapacitive behaviour. <i>Journal of Materials Chemistry A</i> , 2019, 7, 372-380.	5.2	60
49	Defect-Rich Nitrogen Doped Co ₃ O ₄ /C Porous Nanocubes Enable High Efficiency Bifunctional Oxygen Electrocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1902875.	7.8	233
50	An anion exchange reaction: an effective approach to prepare alloyed Co-Fe bimetallic disulfide for improving the electrocatalytic activity. <i>Chemical Communications</i> , 2019, 55, 7615-7618.	2.2	3
51	Protein Shell-Encapsulated Pt Clusters as Continuous O ₂ -Supplied Biocoats for Photodynamic Therapy in Hypoxic Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17215-17225.	4.0	37
52	TiO ₂ nanotubes modified with Au nanoparticles for visible-light enhanced antibacterial and anti-inflammatory capabilities. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 66-73.	1.9	34
53	Atomic layer deposition of ultra-trace Pt catalysts onto a titanium nitride nanowire array for electrocatalytic methanol oxidation. <i>Chemical Communications</i> , 2019, 55, 13283-13286.	2.2	8
54	Asymmetric coupling of Au nanospheres on TiO ₂ nanochannel membranes for NIR-gated artificial ionic nanochannels. <i>Chemical Communications</i> , 2019, 55, 14625-14628.	2.2	12

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55	Ultrathin Carbon Shell Entrapped Metal Co/CoO for High-Performance Electrochemical Supercapacitor. ECS Meeting Abstracts, 2019, , .	0.0	0
56	Co ₃ O ₄ -doped Co/CoFe nanoparticles encapsulated in carbon shells as bifunctional electrocatalysts for rechargeable Zn-Air batteries. Journal of Materials Chemistry A, 2018, 6, 3730-3737.	5.2	98
57	Electrochromic-Tuned Plasmonics for Photothermal Sterile Window. ACS Nano, 2018, 12, 6895-6903.	7.3	76
58	Plasmon-Triggered Hot-Spot Excitation on SERS Substrates for Bacterial Inactivation and in Situ Monitoring. ACS Applied Materials & Interfaces, 2018, 10, 25219-25227.	4.0	24
59	Boosting the oxygen evolution reaction performance of CoS ₂ microspheres by subtle ionic liquid modification. Chemical Communications, 2018, 54, 8765-8768.	2.2	49
60	Filling foaming agent into stacked layers: Rapid synthesis of graphitic carbon nitride nanosheets decorated with ultrafined MXY (X=O, S) nanoparticles for enhanced photoresponsive abilities. Journal of Electroanalytical Chemistry, 2018, 826, 52-59.	1.9	5
61	Signal-On Electrochemiluminescence of Self-Ordered Molybdenum Oxynitride Nanotube Arrays for Label-Free Cytosensing. Analytical Chemistry, 2018, 90, 10858-10864.	3.2	31
62	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.	4.0	3
63	Ultrathin CoS ₂ shells anchored on Co ₃ O ₄ nanoneedles for efficient hydrogen evolution electrocatalysis. Journal of Power Sources, 2017, 356, 89-96.	4.0	56
64	Co ₄ N Nanowires: Noble-Metal-Free Peroxidase Mimetic with Excellent Salt- and Temperature-Resistant Abilities. ACS Applied Materials & Interfaces, 2017, 9, 29881-29888.	4.0	86
65	Anion-exchange reactions: facile and general access to sensitive photoelectrochemical platforms for biomarker immunosensing. Journal of Materials Chemistry B, 2017, 5, 5145-5151.	2.9	7
66	Graphitic C ₃ N ₄ -Sensitized TiO ₂ Nanotube Layers: A Visible-Light Activated Efficient Metal-Free Antimicrobial Platform. Chemistry - A European Journal, 2016, 22, 3947-3951.	1.7	66
67	Pt-Decorated g-C ₃ N ₄ /TiO ₂ Nanotube Arrays with Enhanced Visible-Light Photocatalytic Activity for H ₂ Evolution. ChemistryOpen, 2016, 5, 197-200.	0.9	30
68	Carbon-Decorated TiO ₂ Nanotube Membranes: A Renewable Nanofilter for Charge-Selective Enrichment of Proteins. ACS Applied Materials & Interfaces, 2016, 8, 21997-22004.	4.0	21
69	Visible-Light-Triggered Drug Release from TiO ₂ Nanotube Arrays: A Controllable Antibacterial Platform. Angewandte Chemie - International Edition, 2016, 55, 593-597.	7.2	94
70	Electrochemical protonation/de-protonation of titania nanotubes decorated with silver phosphate crystals: An enhanced electrochromic color contrast. Optical Materials, 2015, 40, 112-117.	1.7	10
71	Nitrogen-doped carbon nanospheres derived from cocoon silk as metal-free electrocatalyst for glucose sensing. Talanta, 2015, 144, 1245-1251.	2.9	15
72	Carbon clad TiO ₂ nanotubes: fabrication and use in 3D-RuO ₂ based supercapacitors. Chemical Communications, 2015, 51, 7614-7617.	2.2	46

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73	Facile method to synthesize a carbon layer embedded into titanium dioxide nanotubes with metal oxide decoration for electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23754-23759.	5.2	19
74	Photocatalytic synthesis and synergistic effect of Prussian blue-decorated Au nanoparticles/TiO ₂ nanotube arrays for H ₂ O ₂ amperometric sensing. <i>Electrochimica Acta</i> , 2014, 125, 530-535.	2.6	20
75	Synthesis of Magnetically Separable Ag ₃ PO ₄ /TiO ₂ /Fe ₃ O ₄ Heterostructure with Enhanced Photocatalytic Performance under Visible Light for Photoinactivation of Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15122-15131.	4.0	197
76	Development of Amperometric Glucose Biosensor Based on Prussian Blue Functionalized TiO ₂ Nanotube Arrays. <i>Scientific Reports</i> , 2014, 4, 6891.	1.6	65
77	Signal Amplification Strategy Based on TiO ₂ Nanotube Layers and Nanobeads Carrying Quantum Dots for Electrochemiluminescent Immunosensors. <i>ChemistryOpen</i> , 2013, 2, 93-98.	0.9	6
78	Nickel Hydroxide Nanoparticle Activated Semi-metallic TiO ₂ Nanotube Arrays for Non-enzymatic Glucose Sensing. <i>Chemistry - A European Journal</i> , 2013, 19, 15530-15534.	1.7	51
79	One-Step to Prepare Self-Organized Nanoporous NiO/TiO ₂ Layers and its Use in Non-Enzymatic Glucose Sensing. <i>Scientific Reports</i> , 2013, 3, 3323.	1.6	41
80	Biotemplated synthesis of Au nanoparticles@TiO ₂ nanotube junctions for enhanced direct electrochemistry of heme proteins. <i>Chemical Communications</i> , 2013, 49, 774-776.	2.2	38
81	Signal-amplified platform for electrochemical immunosensor based on TiO ₂ nanotube arrays using a HRP tagged antibody-Au nanoparticles as probe. <i>Biosensors and Bioelectronics</i> , 2013, 41, 771-775.	5.3	54
82	Biocompatible Functional Nanomaterials: Synthesis, Properties, and Applications. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-1.	1.5	2
83	Dual Signal Amplification Based on TiO ₂ Nanotube Layers and CdTe Quantum Dots for Electrochemiluminescent Immunosensing. , 2013, , .		0
84	Protein-mediated synthesis of antibacterial silver nanoparticles deposited on titanium dioxide nanotube arrays. <i>Mikrochimica Acta</i> , 2012, 177, 129-135.	2.5	9
85	Fine-tunable Ni@porous silica core-shell nanocatalysts: Synthesis, characterization, and catalytic properties in partial oxidation of methane to syngas. <i>Journal of Catalysis</i> , 2012, 288, 54-64.	3.1	144
86	CdS nanocrystals functionalized TiO ₂ nanotube arrays: Novel electrochemiluminescence platforms for ultrasensitive immunosensors. <i>Electrochemistry Communications</i> , 2012, 16, 44-48.	2.3	40
87	Ultrasensitive Immunosensor Based on Electrogenated Chemiluminescence Quenching of CdS/TiO ₂ Nanotube Arrays for Detection of Antigen. , 2012, , .		0
88	Covalent functionalization of TiO ₂ nanotube arrays with EGF and BMP-2 for modified behavior towards mesenchymal stem cells. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 927.	0.6	39
89	Facile synthesis of Pt/TiO ₂ nanotube arrays: A reusable platform for direct methanol fuel cell. , 2011, , .		0
90	Porous anodic alumina: Amphiphilic and magnetically guidable micro-rafts. <i>Electrochemistry Communications</i> , 2011, 13, 934-937.	2.3	3

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91	A self-cleaning nonenzymatic glucose detection system based on titania nanotube arrays modified with platinum nanoparticles. <i>Electrochemistry Communications</i> , 2011, 13, 1217-1220.	2.3	37
92	Multistage Coloring Electrochromic Device Based on TiO ₂ Nanotube Arrays Modified with WO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2011, 21, 1941-1946.	7.8	123
93	Highly uniform Pt nanoparticle decoration on TiO ₂ nanotube arrays: A refreshable platform for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2011, 13, 290-293.	2.3	114
94	Optimized monolayer grafting of 3-aminopropyltriethoxysilane onto amorphous, anatase and rutile TiO ₂ . <i>Surface Science</i> , 2010, 604, 346-353.	0.8	100
95	Voltage-Induced Payload Release and Wettability Control on TiO ₂ and TiO ₂ Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 351-354.	7.2	110
96	Modulated TiO ₂ nanotube stacks and their use in interference sensors. <i>Electrochemistry Communications</i> , 2010, 12, 579-582.	2.3	95
97	TiO ₂ Nano Test Tubes as a Self-Cleaning Platform for High-Sensitivity Immunoassays. <i>Small</i> , 2010, 6, 1180-1184.	5.2	78
98	Core-shell structured microcapsular-like Ru@SiO ₂ reactor for efficient generation of CO _x -free hydrogen through ammonia decomposition. <i>Chemical Communications</i> , 2010, 46, 5298.	2.2	71
99	Semimetallic TiO ₂ Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7236-7239.	7.2	133
100	Photoinduced release of active proteins from TiO ₂ surfaces. <i>Electrochemistry Communications</i> , 2009, 11, 1429-1433.	2.3	24
101	TiO ₂ Nanotubes: Efficient Suppression of Top Etching during Anodic Growth. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, C17.	2.2	63
102	Amphiphilic TiO ₂ Nanotube Arrays: An Actively Controllable Drug Delivery System. <i>Journal of the American Chemical Society</i> , 2009, 131, 4230-4232.	6.6	399
103	Direct Electron Transfer of Thiol-Derivatized Tetraphenylporphyrin Assembled on Gold Electrodes in an Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9359-9367.	1.5	26
104	Highly selective amperometric glucose microdevice derived from diffusion layer gap electrode. <i>Biosensors and Bioelectronics</i> , 2008, 23, 892-898.	5.3	28
105	Surface electric field manipulation of the adsorption kinetics and biocatalytic properties of cytochrome c on a 3D macroporous Au electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 333-341.	1.9	40
106	Superhydrophobicity of 3D Porous Copper Films Prepared Using the Hydrogen Bubble Dynamic Template. <i>Chemistry of Materials</i> , 2007, 19, 5758-5764.	3.2	313
107	Hydrogen bubble dynamic template synthesis of porous gold for nonenzymatic electrochemical detection of glucose. <i>Electrochemistry Communications</i> , 2007, 9, 981-988.	2.3	477
108	Diffusion layer based probe-in-tube microdevice for selective analysis of electroactive species. <i>Electrochemistry Communications</i> , 2007, 9, 1553-1557.	2.3	7

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109	Facile Method To Fabricate a Large-Scale Superhydrophobic Surface by Galvanic Cell Reaction. Chemistry of Materials, 2006, 18, 1365-1368.	3.2	138
110	Semiconductor supported biomimetic superhydrophobic gold surfaces by the galvanic exchange reaction. Surface Science, 2006, 600, 38-42.	0.8	65
111	Photosynthesis and characterization of Prussian blue nanocubes on surfaces of TiO ₂ colloids. Applied Physics Letters, 2006, 88, 053112.	1.5	22
112	Nonenzymatic Glucose Detection by Using a Three-Dimensionally Ordered, Macroporous Platinum Template. Chemistry - A European Journal, 2005, 11, 2177-2182.	1.7	243
113	Galvanic Deposition of Nanostructured Noble-Metal Films on Silicon. Electrochemical and Solid-State Letters, 2005, 8, C148.	2.2	50