

Wei-min Cai

List of Publications by Year in descending order

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105
papers

6,805
citations

76196

40
h-index

60497

81
g-index

106
all docs

106
docs citations

106
times ranked

8835
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Visible-Light Responsive Graphene Oxide/TiO ₂ Composites with p/n Heterojunction. ACS Nano, 2010, 4, 6425-6432.	7.3	829
2	Efficient Photocatalytic Degradation of Phenol over Co ₃ O ₄ /BiVO ₄ Composite under Visible Light Irradiation. Journal of Physical Chemistry B, 2006, 110, 20211-20216.	1.2	819
3	Visible-Light-Activated Nanoparticle Photocatalyst of Iodine-Doped Titanium Dioxide. Chemistry of Materials, 2005, 17, 1548-1552.	3.2	484
4	The surface properties and photocatalytic activities of ZnO ultrafine particles. Applied Surface Science, 2001, 180, 308-314.	3.1	317
5	Photocatalytic degradation of phenol in aqueous nitrogen-doped TiO ₂ suspensions with various light sources. Applied Catalysis B: Environmental, 2005, 57, 223-231.	10.8	245
6	Effects of extracellular polymeric substances on aerobic granulation in sequencing batch reactors. Chemosphere, 2006, 63, 1728-1735.	4.2	175
7	Visible-Light Responsive Photocatalytic Fuel Cell Based on WO ₃ /W Photoanode and Cu ₂ O/Cu Photocathode for Simultaneous Wastewater Treatment and Electricity Generation. Environmental Science & Technology, 2012, 46, 11451-11458.	4.6	167
8	The preparation and characterization of ZnO ultrafine particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 332, 356-361.	2.6	166
9	A TiO ₂ -nanotube-array-based photocatalytic fuel cell using refractory organic compounds as substrates for electricity generation. Chemical Communications, 2011, 47, 10314.	2.2	156
10	Photoelectrocatalytic degradation of tetracycline by highly effective TiO ₂ nanopore arrays electrode. Journal of Hazardous Materials, 2009, 171, 678-683.	6.5	143
11	Efficient electricity production and simultaneously wastewater treatment via a high-performance photocatalytic fuel cell. Water Research, 2011, 45, 3991-3998.	5.3	138
12	Synthesis and characterization of self-cleaning cotton fabrics modified by TiO ₂ through a facile approach. Surface and Coatings Technology, 2009, 203, 3728-3733.	2.2	133
13	Synthesis and photocatalytic performance of the efficient visible light photocatalyst Ag@AgCl/BiVO ₄ . Journal of Molecular Catalysis A, 2012, 353-354, 22-28.	4.8	124
14	A new glass substrate photoelectrocatalytic electrode for efficient visible-light hydrogen production: CdS sensitized TiO ₂ nanotube arrays. Applied Catalysis B: Environmental, 2010, 95, 408-413.	10.8	120
15	Highly stable CdS-modified short TiO ₂ nanotube array electrode for efficient visible-light hydrogen generation. International Journal of Hydrogen Energy, 2011, 36, 167-174.	3.8	115
16	Low temperature hydrothermal synthesis of N-doped TiO ₂ photocatalyst with high visible-light activity. Journal of Alloys and Compounds, 2010, 502, 289-294.	2.8	113
17	Origin of Visible Light Photoactivity of Reduced Graphene Oxide/TiO ₂ by in Situ Hydrothermal Growth of Undergrown TiO ₂ with Graphene Oxide. Journal of Physical Chemistry C, 2013, 117, 16734-16741.	1.5	113
18	Photoelectrocatalytic degradation of refractory organic compounds enhanced by a photocatalytic fuel cell. Applied Catalysis B: Environmental, 2012, 111-112, 485-491.	10.8	110

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19	Correlation of electronic structures and crystal structures with photocatalytic properties of undoped, N-doped and I-doped TiO ₂ . <i>Chemical Physics Letters</i> , 2006, 420, 71-76.	1.2	100
20	Efficient photochemical water splitting and organic pollutant degradation by highly ordered TiO ₂ nanopore arrays. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 142-148.	10.8	96
21	Preparation, characterization and visible-light activity of carbon modified TiO ₂ with two kinds of carbonaceous species. <i>Journal of Molecular Catalysis A</i> , 2009, 314, 35-41.	4.8	92
22	Understanding the composition and electronic structure dependent photocatalytic performance of bismuth oxyiodides. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5592-5598.	5.2	90
23	The Phototoxicity of Xanthene Derivatives Against <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> , and <i>Saccharomyces cerevisiae</i> . <i>Current Microbiology</i> , 2006, 52, 1-5.	1.0	83
24	Photoelectrocatalytic COD determination method using highly ordered TiO ₂ nanotube array. <i>Water Research</i> , 2009, 43, 1986-1992.	5.3	81
25	Relationships of surface oxygen vacancies with photoluminescence and photocatalytic performance of ZnO nanoparticles. <i>Science in China Series B: Chemistry</i> , 2005, 48, 25-30.	0.8	79
26	The formation mechanism of titania nanotube arrays in hydrofluoric acid electrolyte. <i>Journal of Materials Science</i> , 2008, 43, 1880-1884.	1.7	76
27	Photoelectrochemical properties of nanocrystalline Aurivillius phase Bi ₂ MoO ₆ film under visible light irradiation. <i>Chemical Physics Letters</i> , 2008, 461, 102-105.	1.2	76
28	Preparation of short, robust and highly ordered TiO ₂ nanotube arrays and their applications as electrode. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 326-332.	10.8	69
29	Hybrid semiconductor electrodes for light-driven photoelectrochemical switches. <i>Electrochimica Acta</i> , 2008, 53, 4621-4626.	2.6	63
30	Preparation of photocatalytic anatase nanowire films by <i>in situ</i> oxidation of titanium plate. <i>Nanotechnology</i> , 2009, 20, 185703.	1.3	58
31	Aerated visible-light responsive photocatalytic fuel cell for wastewater treatment with producing sustainable electricity in neutral solution. <i>Chemical Engineering Journal</i> , 2014, 252, 89-94.	6.6	58
32	A novel thin-layer photoelectrocatalytic (PEC) reactor with double-faced titania nanotube arrays electrode for effective degradation of tetracycline. <i>Applied Catalysis B: Environmental</i> , 2010, 98, 154-160.	10.8	57
33	Effect of Gold Nanoparticles on the Photocatalytic and Photoelectrochemical Performance of Au Modified BiVO ₄ . <i>Nano-Micro Letters</i> , 2011, 3, 171-177.	14.4	57
34	Reduction of graphene oxide by an in-situ photoelectrochemical method in a dye-sensitized solar cell assembly. <i>Nanoscale Research Letters</i> , 2012, 7, 101.	3.1	56
35	Enhanced Photoelectrochemical Properties of Cu ₂ O-loaded Short TiO ₂ Nanotube Array Electrode Prepared by Sonochemical Deposition. <i>Nano-Micro Letters</i> , 2010, 2, 277-284.	14.4	55
36	Mechanisms of the stimulatory effects of rhamnolipid biosurfactant on rice straw hydrolysis. <i>Applied Energy</i> , 2009, 86, S233-S237.	5.1	52

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37	Preparation of well-aligned WO ₃ nanoflake arrays vertically grown on tungsten substrate as photoanode for photoelectrochemical water splitting. <i>Electrochemistry Communications</i> , 2012, 20, 153-156.	2.3	52
38	Comparison of photoelectrochemical properties of TiO ₂ -nanotube-array photoanode prepared by anodization in different electrolyte. <i>Environmental Chemistry Letters</i> , 2009, 7, 363-368.	8.3	48
39	Optical, structural and thermal characteristics of Cu@CuAl ₂ O ₄ hybrids deposited in anodic aluminum oxide as selective solar absorber. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1578-1581.	3.0	46
40	Preparation of visible light-responsive AgBiO ₃ bactericide and its control effect on the <i>Microcystis aeruginosa</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 101, 265-270.	1.7	45
41	Bioprocess intensification: an aqueous two-phase process for the purification of C-phycoerythrin from dry <i>Spirulina platensis</i> . <i>European Food Research and Technology</i> , 2014, 238, 451-457.	1.6	40
42	Enhanced degradation of aqueous methyl orange by contact glow discharge electrolysis using Fe ²⁺ as catalyst. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1749-1755.	1.5	38
43	Advanced nanoarchitectures of silver/silver compound composites for photochemical reactions. <i>Nanoscale</i> , 2014, 6, 7730-7742.	2.8	38
44	The influence of various genotypes on the metabolic activity of NAT2 in a Chinese population. <i>European Journal of Clinical Pharmacology</i> , 2006, 62, 355-359.	0.8	32
45	Preparation, morphology, and mechanical properties of modified-PU/LIPR graft-IPN nanocomposites with BaTiO ₃ fiber. <i>Materials Chemistry and Physics</i> , 2003, 82, 73-77.	2.0	31
46	Establishment of High-Performance Liquid Chromatography and Enzyme Multiplied Immunoassay Technology Methods for Determination of Free Mycophenolic Acid and Its Application in Chinese Liver Transplant Recipients. <i>Therapeutic Drug Monitoring</i> , 2010, 32, 653-660.	1.0	31
47	Simultaneous determination of bilirubin and its glucuronides in liver microsomes and recombinant UGT1A1 enzyme incubation systems by HPLC method and its application to bilirubin glucuronidation studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 92, 149-159.	1.4	30
48	Microbial degradation of polyacrylamide by aerobic granules. <i>Environmental Technology (United Kingdom)</i> , 2000, 21, 1129-1139.	1.2	29
49	Preparation, characterization and photocatalytic activity of visible light driven chlorine-doped TiO ₂ . <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 278-282.	0.4	24
50	Template-free sol-gel preparation and characterization of free-standing visible light responsive C,N-modified porous monolithic TiO ₂ . <i>Journal of Hazardous Materials</i> , 2010, 178, 560-565.	6.5	24
51	Physiological and Biochemical Changes in <i>Microcystis aeruginosa</i> Qutz. in Phosphorus Limitation. <i>Journal of Integrative Plant Biology</i> , 2005, 47, 692-702.	4.1	22
52	Preparation and Characterization of Freestanding Hierarchical Porous TiO ₂ Monolith Modified with Graphene Oxide. <i>Nano-Micro Letters</i> , 2012, 4, 90-97.	14.4	22
53	Lactic acid production from dining hall food waste by <i>Lactobacillus plantarum</i> using response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1541-1550.	1.6	20
54	In-situ synthesis of photocatalytic CuAl ₂ O ₄ @Cu hybrid nanorod arrays. <i>Chemical Communications</i> , 2009, , 3588.	2.2	20

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55	One-step synthesis of Pt nanoparticles/reduced graphene oxide composite with enhanced electrochemical catalytic activity. <i>Science China Chemistry</i> , 2013, 56, 354-361.	4.2	20
56	Sulfur Dioxide Capture by Heterogeneous Oxidation on Hydroxylated Manganese Dioxide. <i>Environmental Science & Technology</i> , 2016, 50, 5809-5816.	4.6	20
57	Detection of C1236T, G2677T/A, and C3435T polymorphism of <i>MDR1</i> by amplification refractory mutation system PCR. <i>Journal of Clinical Laboratory Analysis</i> , 2009, 23, 110-116.	0.9	19
58	High incidence of severe neutropenia after gemcitabine-based chemotherapy in Chinese cancer patients with CDA 79A>C mutation. <i>Clinica Chimica Acta</i> , 2012, 413, 1284-1287.	0.5	19
59	Population pharmacokinetic study of cyclosporine in Chinese renal transplant recipients. <i>European Journal of Clinical Pharmacology</i> , 2011, 67, 601-612.	0.8	18
60	Encapsulation of liver microsomes into a thermosensitive hydrogel for characterization of drug metabolism and toxicity. <i>Biomaterials</i> , 2013, 34, 9770-9778.	5.7	18
61	Investigation on the properties and kinetics of glucose-fed aerobic granular sludge. <i>Enzyme and Microbial Technology</i> , 2005, 36, 307-313.	1.6	17
62	Adsorption of 4-tert-Butylpyridine on TiO ₂ Surface in Dye-Sensitized Solar Cells. <i>Chinese Journal of Chemistry</i> , 2008, 26, 70-76.	2.6	16
63	Stimulatory effects of biosurfactant produced by <i>Pseudomonas aeruginosa</i> BSZ-07 on rice straw decomposing. <i>Journal of Environmental Sciences</i> , 2008, 20, 975-980.	3.2	15
64	Determination of S-propargyl-cysteine in rat plasma by mixed-mode reversed-phase and cation-exchange HPLC-MS/MS method and its application to pharmacokinetic studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 54, 1187-1191.	1.4	14
65	Productive functional evolution of rural settlements: analysis of livelihood strategy and land use transition in eastern China. <i>Journal of Mountain Science</i> , 2017, 14, 2540-2554.	0.8	14
66	Spatio-temporal differences and factors influencing intensive cropland use in the Huang-Huai-Hai Plain. <i>Journal of Chinese Geography</i> , 2018, 28, 1626-1640.	1.5	14
67	Preclinical assessment of the distribution, metabolism, and excretion of S-propargyl-cysteine, a novel H ₂ S donor, in Sprague-Dawley rats. <i>Acta Pharmacologica Sinica</i> , 2012, 33, 839-844.	2.8	13
68	Assessment of a COD analytical method based on the photoelectrocatalysis of a TiO ₂ nanotube array sensor. <i>Analytical Methods</i> , 2012, 4, 1790.	1.3	13
69	Compatibility of Polyurethane/(vinyl ester resin)(ethyl acrylate) Interpenetrating Polymer Network. <i>Polymer Journal</i> , 2007, 39, 1365-1372.	1.3	12
70	Inhibition of Human UGT1A1-Mediated Bilirubin Glucuronidation by Polyphenolic Acids Impact Safety of Popular Salviaolic Acid A/B-Containing Drugs and Herbal Products. <i>Molecular Pharmaceutics</i> , 2017, 14, 2952-2966.	2.3	12
71	Determination of Mycophenolic Acid (MPA) and Its Acyl and Phenol Glucuronide Metabolites Simultaneously in Human Plasma by a Simplified HPLC Method. <i>Analytical Letters</i> , 2007, 40, 2465-2475.	1.0	10
72	Photoelectrochemical Properties of BiVO ₄ Film Electrode in Alkaline Solution. <i>Chinese Journal of Catalysis</i> , 2008, 29, 881-883.	6.9	10

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73	Visible Light Induced Photodegradation and Phototoxicity of Phloxine B and Uranine. <i>Biomedical and Environmental Sciences</i> , 2008, 21, 438-441.	0.2	10
74	Kinetics and Mechanisms for Photoelectrochemical Degradation of Glucose on Highly Effective Self-Organized TiO ₂ Nanotube Arrays. <i>Chinese Journal of Catalysis</i> , 2010, 31, 163-170.	6.9	10
75	Visible light responsive TiO ₂ modification with nonmetal elements. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2011, 6, 190-199.	0.4	10
76	Alkoxy-derived visible light activity of TiO ₂ synthesized at low temperature. <i>Journal of Molecular Catalysis A</i> , 2011, 335, 97-104.	4.8	10
77	Quantification of leonurine, a novel potential cardiovascular agent, in rat plasma by liquid chromatography-tandem mass spectrometry and its application to pharmacokinetic study in rats. <i>Biomedical Chromatography</i> , 2012, 26, 518-523.	0.8	10
78	Drug activity screening based on microsomes-hydrogel system in predicting metabolism induced antitumor effect of oroxylin A. <i>Scientific Reports</i> , 2016, 6, 21604.	1.6	9
79	Use of starter culture of <i>Lactobacillus plantarum</i> BP04 in the preservation of dining-hall food waste. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 2249-2256.	1.7	8
80	Estimating N-acetyltransferase metabolic activity and pharmacokinetic parameters of isoniazid from genotypes in Chinese subjects. <i>Clinica Chimica Acta</i> , 2009, 405, 23-29.	0.5	8
81	Charge recombination in dye-sensitized nanoporous TiO ₂ solar cell. <i>Science Bulletin</i> , 2005, 50, 2408-2412.	1.7	7
82	Bioavailability and pharmacokinetics of S-propargyl-L-cysteine, a novel cardioprotective agent, after single and multiple doses in Beagle dogs. <i>Xenobiotica</i> , 2012, 42, 304-309.	0.5	7
83	Characterization and Mechanism of the Photoelectrocatalytic Oxidation of Organic Pollutants in a Thin-Layer Reactor. <i>Chinese Journal of Catalysis</i> , 2011, 32, 1357-1363.	6.9	6
84	Preparation and characterization of nanoparticle Ru:TiO ₂ films and their photocatalytic activity. <i>Rare Metals</i> , 2011, 30, 254-258.	3.6	6
85	Identification of UDP-glucuronosyltransferase isoforms responsible for leonurine glucuronidation in human liver and intestinal microsomes. <i>Xenobiotica</i> , 2014, 44, 775-784.	0.5	6
86	Establishment of rat liver microsome-hydrogel system for in vitro phase II metabolism and its application to study pharmacological effects of UGT substrates. <i>Drug Metabolism and Pharmacokinetics</i> , 2019, 34, 141-147.	1.1	6
87	Discussion on mixed use of rural residential land research framework. <i>Journal of Natural Resources</i> , 2020, 35, 2929.	0.4	6
88	Controlled growth of spinel CuAl ₂ O ₄ /Cu hybrid nanorods array by electrodeposition in porous aluminum oxide template. <i>Journal of Alloys and Compounds</i> , 2012, 545, 53-56.	2.8	5
89	Application of a New Dynamic Model to Predict the In Vitro Intrinsic Clearance of Tolbutamide Using Rat Microsomes Encapsulated in a Fab Hydrogel. <i>Drug Metabolism and Disposition</i> , 2015, 44, 40-49.	1.7	5
90	Structure and photochromism of polyoxometalates nanoparticles in cross-linked polymer networks. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 295-299.	1.1	4

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91	Rapid Allele-Specific PCR method for CDA 79A & C (K27Q) genotyping: A useful pharmacogenetic tool and world-wide polymorphism distribution. <i>Clinica Chimica Acta</i> , 2011, 412, 2237-2240.	0.5	4
92	Physicochemical characteristics and gastrointestinal absorption behaviors of S-propargyl-cysteine, a potential new drug candidate for cardiovascular protection and antitumor treatment. <i>Xenobiotica</i> , 2015, 45, 322-334.	0.5	4
93	Establishment and assessment of a novel <i>in vitro</i> bio-PK/PD system in predicting the <i>in vivo</i> pharmacokinetics and pharmacodynamics of cyclophosphamide. <i>Xenobiotica</i> , 2018, 48, 368-375.	0.5	4
94	Enhanced Photoelectrochemical Properties of Cu ₂ O-loaded Short TiO ₂ Nanotube Array Electrode Prepared by Sonoelectrochemical Deposition. , 2010, 2, 277.		4
95	Effect of Gold Nanoparticles on the Photocatalytic and Photoelectrochemical Performance of Au Modified BiVO ₄ . , 2011, 3, 171.		4
96	Advanced oxidations of chloroacetic acids present in drinking water. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2000, 35, 1811-1816.	0.9	3
97	Effects of nutrients on <i>Microcystis</i> growth more easily forming bloom. <i>Journal of Environmental Sciences</i> , 2004, 16, 934-7.	3.2	3
98	Inhibition of Human UDP-Glucuronosyltransferases 1A1-Mediated Bilirubin Glucuronidation by the Popular Flavonoids Baicalein, Baicalin, and Hyperoside Is Responsible for Herb (Shuang-Huang-Lian)-Induced Jaundice. <i>Drug Metabolism and Disposition</i> , 2022, 50, 552-565.	1.7	3
99	Population Pharmacokinetics and Pharmacodynamics of Isoniazid and its Metabolite Acetylisoniazid in Chinese Population. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	3
100	Effect of Structural Parameters of TiO ₂ Nanotube Arrays upon Their Photocatalytic/Photoelectrocatalytic Performance. <i>Chinese Journal of Chemistry</i> , 2011, 29, 2236-2242.	2.6	2
101	Photoelectrochemical degradation of methyl orange by TiO ₂ nanopore arrays electrode and its comparison with TiO ₂ nanotube arrays electrode. <i>Water Science and Technology</i> , 2010, 62, 2783-2789.	1.2	1
102	Synthesis and Photocatalytic Application of Hierarchical Macroporous TiO ₂ with Mesocellular Foam Structure Using Eggshell Membrane as Template. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	1
103	Novel <i>in vitro</i> dynamic metabolic system for predicting the human pharmacokinetics of tolbutamide. <i>Acta Pharmacologica Sinica</i> , 2018, 39, 1522-1532.	2.8	1
104	Application of a Well-Designed Cationic Polyelectrolyte for Activated Sludge Dewatering. <i>Journal of Chemical Engineering of Japan</i> , 2007, 40, 1113-1120.	0.3	1
105	A Novel Method for Predicting the Human Inherent Clearance and Its Application in the Study of the Pharmacokinetics and Drug-Drug Interaction between Azidothymidine and Fluconazole Mediated by UGT Enzyme. <i>Pharmaceutics</i> , 2021, 13, 1734.	2.0	1