## Bing Wang

## List of Publications by Year in descending order

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135 papers	6,625 citations	35 h-index	71685 76 g-index
139	139	139	8602
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Broadband graphene polarizer. Nature Photonics, 2011, 5, 411-415.	31.4	961
2	Photocatalytic decarboxylative alkylations mediated by triphenylphosphine and sodium iodide. Science, 2019, 363, 1429-1434.	12.6	520
3	Acute toxicological impact of nano- and submicro-scaled zinc oxide powder on healthy adult mice. Journal of Nanoparticle Research, 2008, 10, 263-276.	1.9	338
4	Acute toxicity of nano- and micro-scale zinc powder in healthy adult mice. Toxicology Letters, 2006, 161, 115-123.	0.8	276
5	Plasmon Bragg reflectors and nanocavities on flat metallic surfaces. Applied Physics Letters, 2005, 87, 013107.	3.3	243
6	Strong Coupling of Surface Plasmon Polaritons in Monolayer Graphene Sheet Arrays. Physical Review Letters, 2012, 109, 073901.	7.8	217
7	Surface plasmon polariton propagation in nanoscale metal gap waveguides. Optics Letters, 2004, 29, 1992.	3.3	205
8	Advanced review of graphene-based nanomaterials in drug delivery systems: Synthesis, modification, toxicity and application. Materials Science and Engineering C, 2017, 77, 1363-1375.	7.3	186
9	Plasmonic absorption enhancement in periodic cross-shaped graphene arrays. Optics Express, 2015, 23, 8888.	3.4	185
10	Enhanced Surface Plasmon Resonance on a Smooth Silver Film with a Seed Growth Layer. ACS Nano, 2010, 4, 3139-3146.	14.6	174
11	Exosome-mediated microRNA transfer plays a role in radiation-induced bystander effect. RNA Biology, 2015, 12, 1355-1363.	3.1	129
12	Recent advances of two-dimensional materials in smart drug delivery nano-systems. Bioactive Materials, 2020, 5, 1071-1086.	15.6	119
13	Analytical methods and biological activities of Panax notoginseng saponins: Recent trends. Journal of Ethnopharmacology, 2019, 236, 443-465.	4.1	115
14	Black phosphorus-based van der Waals heterostructures for mid-infrared light-emission applications. Light: Science and Applications, 2020, 9, 114.	16.6	100
15	Macrophage-based nanotherapeutic strategies in ulcerative colitis. Journal of Controlled Release, 2020, 320, 363-380.	9.9	82
16	Neuroprotective Effects of Ginseng Phytochemicals: Recent Perspectives. Molecules, 2019, 24, 2939.	3.8	77
17	High Aspect Subdiffraction-Limit Photolithography via a Silver Superlens. Nano Letters, 2012, 12, 1549-1554.	9.1	72
18	Metal heterowaveguides for nanometric focusing of light. Applied Physics Letters, 2004, 85, 3599-3601.	3.3	71

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19	Advances in extraction and analysis of phenolic compounds from plant materials. Chinese Journal of Natural Medicines, 2017, 15, 721-731.	1.3	70
20	Remodeling tumor immune microenvironment (TIME) for glioma therapy using multi-targeting liposomal codelivery., 2020, 8, e000207.		70
21	Precise Determination of the Crystallographic Orientations in Single ZnS Nanowires by Second-Harmonic Generation Microscopy. Nano Letters, 2015, 15, 3351-3357.	9.1	66
22	Study on the physicochemical properties and anti-inflammatory effects of paeonol in rats with TNBS-induced ulcerative colitis. International Immunopharmacology, 2017, 42, 32-38.	3.8	55
23	UV-Visible Photodetector Based on I-type Heterostructure of ZnO-QDs/Monolayer MoS2. Nanoscale Research Letters, 2019, 14, 364.	5.7	54
24	<p>Resveratrol solid lipid nanoparticles to trigger credible inhibition of doxorubicin cardiotoxicity</p> . International Journal of Nanomedicine, 2019, Volume 14, 6061-6071.	6.7	52
25	Evaluate the ability of PVP to inhibit crystallization of amorphous solid dispersions by density functional theory and experimental verify. European Journal of Pharmaceutical Sciences, 2017, 96, 45-52.	4.0	50
26	Optical bistability in defective photonic multilayers doped by graphene. Optical and Quantum Electronics, 2017, 49, 1.	3.3	48
27	Numerical Study on Plasmonic Absorption Enhancement by a Rippled Graphene Sheet. Journal of Lightwave Technology, 2017, 35, 320-324.	<b>4.</b> 6	47
28	Lactoferrin-mediated macrophage targeting delivery and patchouli alcohol-based therapeutic strategy for inflammatory bowel diseases. Acta Pharmaceutica Sinica B, 2020, 10, 1966-1976.	12.0	46
29	Advances in Pharmaceutical Strategies Enhancing the Efficiencies of Oral Colon-Targeted Delivery Systems in Inflammatory Bowel Disease. Molecules, 2018, 23, 1622.	3.8	45
30	Directional beaming of light from a nanoslit surrounded by metallic heterostructures. Applied Physics Letters, 2006, 88, 013114.	3.3	43
31	Effect of Surface Morphology on the Optical Properties in Metalâ^'Dielectricâ^'Metal Thin Film Systems. ACS Applied Materials & Dielectricâ ACS ACS Applied Materials & Dielectricâ ACS ACS Applied Materials & Dielectricâ ACS	8.0	41
32	Recent advances in the development of nanomedicines for the treatment of ischemic stroke. Bioactive Materials, 2021, 6, 2854-2869.	15.6	41
33	Topological edge modes in non-Hermitian plasmonic waveguide arrays. Optics Express, 2017, 25, 11132.	3.4	40
34	Gastrodia elata Blume Polysaccharides: A Review of Their Acquisition, Analysis, Modification, and Pharmacological Activities. Molecules, 2019, 24, 2436.	3.8	40
35	Progress in active compounds effective on ulcerative colitis from Chinese medicines. Chinese Journal of Natural Medicines, 2019, 17, 81-102.	1.3	40
36	Low-loss plasmonic supermodes in graphene multilayers. Optics Express, 2014, 22, 25324.	3.4	39

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37	Antitumor, Antiviral, and Anti-Inflammatory Efficacy of Essential Oils from Atractylodes macrocephala Koidz. Produced with Different Processing Methods. Molecules, 2019, 24, 2956.	3.8	39
38	Synthesis Techniques, Optoelectronic Properties, and Broadband Photodetection of Thinâ€Film Black Phosphorus. Advanced Optical Materials, 2020, 8, 2000045.	7.3	39
39	Surface Plasmonic Lattice Solitons in Semi-Infinite Graphene Sheet Arrays. Journal of Lightwave Technology, 2017, 35, 2960-2965.	4.6	37
40	Techniques for the analysis of pentacyclic triterpenoids in medicinal plants. Journal of Separation Science, 2018, 41, 6-19.	2.5	37
41	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. Nano Research, 2020, 13, 891-918.	10.4	36
42	Neuroprotective effect of liquiritin against neuropathic pain induced by chronic constriction injury of the sciatic nerve in mice. Biomedicine and Pharmacotherapy, 2017, 95, 186-198.	5.6	35
43	Recent development and advances in Photodetectors based on two-dimensional topological insulators. Journal of Materials Chemistry C, 2020, 8, 15526-15574.	5.5	35
44	Pharmacological inhibition of SUMO-1 with ginkgolic acid alleviates cardiac fibrosis induced by myocardial infarction in mice. Toxicology and Applied Pharmacology, 2018, 345, 1-9.	2.8	34
45	Progress in the therapeutic applications of polymer-decorated black phosphorus and black phosphorus analog nanomaterials in biomedicine. Journal of Materials Chemistry B, 2020, 8, 7076-7120.	5.8	34
46	Macrophage polarization: an effective approach to targeted therapy of inflammatory bowel disease. Expert Opinion on Therapeutic Targets, 2021, 25, 191-209.	3.4	34
47	Biological functions of NLRP3 inflammasome: A therapeutic target in inflammatory bowel disease. Cytokine and Growth Factor Reviews, 2021, 60, 61-75.	7.2	33
48	Analytical methods for amino acid determination in organisms. Amino Acids, 2020, 52, 1071-1088.	2.7	32
49	Characterization of porcine milk oligosaccharides over lactation between primiparous and multiparous female pigs. Scientific Reports, 2018, 8, 4688.	3.3	31
50	Potential therapeutic effects of <em>Cordyceps cicadae</em> and <em>Paecilomyces cicadae </em> on adenine-induced chronic renal failure in rats and their phytochemical analysis. Drug Design, Development and Therapy, 2018, Volume 13, 103-117.	4.3	30
51	Applications of Fourier transform infrared spectroscopy to pharmaceutical preparations. Expert Opinion on Drug Delivery, 2020, 17, 551-571.	5.0	29
52	Talbot effect in weakly coupled monolayer graphene sheet arrays. Optics Letters, 2014, 39, 3371.	3.3	28
53	Topological mode switching in a graphene doublet with exceptional points. Optical and Quantum Electronics, 2017, 49, 1.	3.3	28
54	Comparison of critical methods developed for fatty acid analysis: A review. Journal of Separation Science, 2017, 40, 288-298.	2.5	28

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55	Rabi Oscillations of Plasmonic Supermodes in Graphene Multilayer Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 125-129.	2.9	27
56	A potential drug combination of omeprazole and patchouli alcohol significantly normalizes oxidative stress and inflammatory responses against gastric ulcer in ethanol-induced rat model. International Immunopharmacology, 2020, 85, 106660.	3.8	27
57	A review on analytical methods for natural berberine alkaloids. Journal of Separation Science, 2019, 42, 1794-1815.	2.5	25
58	Tunable broadband transmission and phase modulation of light through graphene multilayers. Journal of Applied Physics, 2014, $115$ , .	2.5	24
59	20(S)-Protopanaxadiol Phospholipid Complex: Process Optimization, Characterization, In Vitro Dissolution and Molecular Docking Studies. Molecules, 2016, 21, 1396.	3.8	24
60	Beneficial anti-inflammatory effect of paeonol self-microemulsion-loaded colon-specific capsules on experimental ulcerative colitis rats. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 324-335.	2.8	24
61	Tunable broadband plasmonic field enhancement on a graphene surface using a normal-incidence plane wave at mid-infrared frequencies. Scientific Reports, 2015, 5, 11195.	3.3	23
62	Two-dimensional monoelemental germanene nanosheets: facile preparation and optoelectronic applications. Journal of Materials Chemistry C, 2020, 8, 16318-16325.	5.5	23
63	An Insightful Picture of Nonlinear Photonics in 2DÂMaterials and their Applications: Recent Advances and Future Prospects. Advanced Optical Materials, 2021, 9, 2001671.	7.3	23
64	Plasmon-negative refraction at the heterointerface of graphene sheet arrays. Optics Letters, 2014, 39, 5957.	3.3	22
65	Vector plasmonic lattice solitons in nonlinear graphene-pair arrays. Optics Letters, 2016, 41, 3619.	3.3	22
66	miR-300 regulates cellular radiosensitivity through targeting p53 and apaf1 in human lung cancer cells. Cell Cycle, 2017, 16, 1943-1953.	2.6	22
67	Legacy effect of grazing intensity mediates the bottomâ€up controls of resource addition on soil food webs. Journal of Applied Ecology, 2021, 58, 976-987.	4.0	22
68	Property Regulation of Conjugated Oligoelectrolytes with Polyisocyanide to Achieve Efficient Photodynamic Antibacterial Biomimetic Hydrogels. ACS Applied Materials & Enterfaces, 2021, 13, 27955-27962.	8.0	22
69	Gastroretentive drug delivery systems for the treatment of Helicobacter pylori. World Journal of Gastroenterology, 2014, 20, 9321-9.	3.3	22
70	Fast Simultaneous Determination of 13 Nucleosides and Nucleobases in Cordyceps sinensis by UHPLC–ESl–MS/MS. Molecules, 2015, 20, 21816-21825.	3.8	21
71	Neuroprotective Effect of Anethole Against Neuropathic Pain Induced by Chronic Constriction Injury of the Sciatic Nerve in Mice. Neurochemical Research, 2018, 43, 2404-2422.	3.3	21
72	Neuroprotective Effect of Dichloromethane Extraction From Piper nigrum L. and Piper longum L. on Permanent Focal Cerebral Ischemia Injury in Rats. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 751-760.	1.6	21

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73	Exploration of the potential mechanism of Banxia Xiexin Decoction for the effects on TNBS-induced ulcerative colitis rats with the assistance of network pharmacology analysis. Journal of Ethnopharmacology, 2021, 277, 114197.	4.1	21
74	Chemical Profile and Anti-inflammatory Activity of Total Flavonoids from Fisch. Iranian Journal of Pharmaceutical Research, 2018, 17, 726-734.	0.5	21
75	Serum microRNAs as Early Indicators for Estimation of Exposure Degree in Response to Ionizing Irradiation. Radiation Research, 2017, 188, 342.	1.5	20
76	Mechanistic Study on Nickelâ€Catalyzed Silylation of Aryl Methyl Ethers. Chemistry - A European Journal, 2017, 23, 17249-17256.	3.3	20
77	Patchouli Alcohol: a Natural Sesquiterpene Against Both Inflammation and Intestinal Barrier Damage of Ulcerative Colitis. Inflammation, 2020, 43, 1423-1435.	3.8	20
78	Remodeling immune microenvironment in periodontitis using resveratrol liposomes as an antibiotic-free therapeutic strategy. Journal of Nanobiotechnology, 2021, 19, 429.	9.1	19
79	Active near infrared linear polarizer based on VO2 phase transition. Journal of Applied Physics, 2013, 114, 163103.	2.5	18
80	Enhanced plasmonic nanofocusing of terahertz waves in tapered graphene multilayers. Optics Express, 2016, 24, 14765.	3.4	18
81	Recent progress in high-performance photo-detectors enabled by the pulsed laser deposition technology. Journal of Materials Chemistry C, 2020, 8, 4988-5014.	5.5	18
82	Effects of Viola yedoensis Makino anti-itching compound on degranulation and cytokine generation in RBL-2H3 mast cells. Journal of Ethnopharmacology, 2016, 189, 132-138.	4.1	17
83	Curcumin Suppresses Cell Proliferation, Migration, and Invasion Through Modulating miR-21-5p/ <i>SOX6</i> Axis in Hepatocellular Carcinoma. Cancer Biotherapy and Radiopharmaceuticals, 2020, , .	1.0	17
84	Evanescent coupling of transmitted light through an array of holes in a metallic film assisted by transverse surface current. Journal of Physics Condensed Matter, 2003, 15, 8147-8156.	1.8	16
85	Near-resonant second-order nonlinear susceptibility in c-axis oriented ZnO nanorods. Applied Physics Letters, 2014, 105, 071906.	3.3	16
86	Two Distinct $\hat{l}_{\pm}$ - $<$ scp> $ < $ scp> -Arabinofuranosidases in Caldicellulosiruptor Species Drive Degradation of Arabinose-Based Polysaccharides. Applied and Environmental Microbiology, 2017, 83, .	3.1	16
87	Enhanced gastric therapeutic effects of <em>Brucea javanica</em> oil and its gastroretentive drug delivery system compared to commercial products in pharmacokinetics study. Drug Design, Development and Therapy, 2018, Volume 12, 535-544.	4.3	16
88	TGF- $\hat{l}^2$ 1-PML SUMOylation-peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 (Pin1) form a positive feedback loop to regulate cardiac fibrosis. Journal of Cellular Physiology, 2019, 234, 6263-6273.	4.1	16
89	A five-dimensional data collection strategy for multicomponent discovery and characterization in Traditional Chinese Medicine: Gastrodia Rhizoma as a case study. Journal of Chromatography A, 2021, 1653, 462405.	3.7	16
90	Non-reciprocal Phase Shift and Mode Modulation in Dynamic Graphene Waveguides. Journal of Lightwave Technology, 2016, , 1-1.	4.6	15

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91	Graphdiyne as a saturable absorber for 2-µm all-solid-state Q-switched laser. Science China Materials, 2021, 64, 683-690.	6.3	15
92	Plasmonic Bloch oscillations in monolayer graphene sheet arrays. Optics Letters, 2014, 39, 6827.	3.3	14
93	Plasmonic routing in aperiodic graphene sheet arrays. Optics Letters, 2014, 39, 4867.	3.3	14
94	Comparison of different methods for extraction of <i>Cinnamomi ramulus</i> : yield, chemical composition and <i>in vitro</i> antiviral activities. Natural Product Research, 2017, 31, 2909-2913.	1.8	14
95	Computational hydrodynamic comparison of a mini vessel and a USP 2 dissolution testing system to predict the dynamic operating conditions for similarity of dissolution performance. International Journal of Pharmaceutics, 2018, 539, 112-130.	5.2	14
96	pH-sensitive and biocompatible quercetin-loaded GO–PEA–HA carrier improved antitumour efficiency and specificity. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, S28-S37.	2.8	14
97	Effects of Paeonol and Gastroretention Tablets of Paeonol on Experimental Gastric Ulcers and Intestinal Flora in Rats. Inflammation, 2020, 43, 2178-2190.	3.8	14
98	Metal heterostructure-based nanophotonic devices: finite-difference time-domain numerical simulations. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1660.	2.1	12
99	Simulations of nanoscale interferometer and array focusing by metal heterowaveguides. Optics Express, 2005, 13, 10558.	3.4	11
100	Self-microemulsifying Drug Delivery System Improved Oral Bioavailability of 20( <i>S</i> )-Protopanaxadiol: From Preparation to Evaluation. Chemical and Pharmaceutical Bulletin, 2015, 63, 688-693.	1.3	11
101	Rabi oscillations of surface plasmon polaritons in graphene-pair arrays. Optics Express, 2015, 23, 31136.	3.4	11
102	Essential oils and ethanol extract from Camellia nitidissima and evaluation of their biological activity. Journal of Food Science and Technology, 2018, 55, 5075-5081.	2.8	11
103	Plasmonic lattice solitons in nonlinear graphene sheet arrays. Optics Express, 2015, 23, 32679.	3.4	10
104	Asymmetric plasmonic supermodes in nonlinear graphene multilayers. Optics Express, 2017, 25, 1234.	3.4	10
105	1.3ÂkV Vertical GaN-Based Trench MOSFETs on 4-Inch Free Standing GaN Wafer. Nanoscale Research Letters, 2022, 17, 14.	5.7	10
106	Bloch mode engineering in graphene modulated periodic waveguides and cavities. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1748.	2.1	9
107	Optimization of metal-enhanced fluorescence by different concentrations of gold-silica core–shell nanoparticles. Optics Communications, 2015, 349, 180-184.	2.1	9
108	Surface plasmonic resonances and enhanced IR spectra in GZO nano-triangle arrays. Materials Letters, 2016, 172, 36-39.	2.6	9

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109	Rapid and Sensitive Determination of Timosaponin Alll in Rat Plasma by LC-MS/MS and Its Pharmacokinetic Application. International Journal of Molecular Sciences, 2013, 14, 3656-3670.	4.1	8
110	Sub-30 nm thick plasmonic films and structures with ultralow loss. Nanoscale, 2014, 6, 3243-3249.	5.6	8
111	Formulation development and evaluation of gastroretentive floating beads with Brucea javanica oil using ionotropic gelation technology. Chinese Journal of Natural Medicines, 2018, 16, 293-301.	1.3	8
112	Chemical Fingerprinting and Quantification of Chinese Cinnamomi Cortex by Ultra High Performance Liquid Chromatography Coupled with Chemometrics Methods. Molecules, 2018, 23, 2214.	3.8	8
113	Confining light in two-dimensional slab photonic crystal waveguides with metal plates. Applied Physics Letters, 2006, 88, 193128.	3.3	7
114	Plasmonic Zitterbewegung in binary graphene sheet arrays. Optics Letters, 2015, 40, 2945.	3.3	7
115	Plasmonic Zener tunneling in binary graphene sheet arrays. Optics Letters, 2016, 41, 2978.	3.3	7
116	Mechanistic insights into the ruthenium-catalyzed site-selective oxidation of alcohols. Organic Chemistry Frontiers, 2018, 5, 2473-2478.	4.5	7
117	MDMX phosphorylation-dependent p53 downregulation contributes to an immunosuppressive tumor microenvironment. Journal of Molecular Cell Biology, 2020, 12, 713-722.	3.3	7
118	Combating liver cancer through GO-targeted biomaterials. Biomedical Materials (Bristol), 2021, 16, 065003.	3.3	7
119	Formulation Optimization of Gastro-Retention Tablets of Paeonol and Efficacy in Treatment of Experimental Gastric Ulcer. Chemical and Pharmaceutical Bulletin, 2017, 65, 706-713.	1.3	6
120	Optimization of Ultrasonic-assisted Extraction of Fatty Acids in Seeds of Brucea Javanica (L.) Merr. from Different Sources and Simultaneous Analysis Using High-Performance Liquid Chromatography with Charged Aerosol Detection. Molecules, 2017, 22, 931.	3.8	5
121	Characterization, Molecular Docking, and In Vitro Dissolution Studies of Solid Dispersions of 20(S)-Protopanaxadiol. Molecules, 2017, 22, 274.	3.8	5
122	Frequency control of surface plasmons with oscillating metal-insulator-metal waveguides. Applied Physics A: Materials Science and Processing, 2012, 107, 43-48.	2.3	4
123	Surface vector plasmonic lattice solitons in semi-infinite graphene-pair arrays. Optics Express, 2017, 25, 20708.	3.4	4
124	Novel economical threeâ€stage slug bubbling process in a largeâ€scale flatâ€sheet membrane bioreactor of double deck configuration. AICHE Journal, 2020, 66, e16501.	3.6	4
125	Liquid-phase exfoliation of black sesame to create a nanoplatform for <i>in vitro</i> photoluminescence and photothermal therapy. Nanomedicine, 2020, 15, 2041-2052.	3.3	4
126	Fast and non–derivative method based on high–performance liquid chromatography–charged aerosol detection for the determination of fatty acids from <i>Agastache rugosa</i> (Fisch. et Mey.) O. Ktze. seeds. Natural Product Research, 2019, 33, 1969-1974.	1.8	3

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127	Using Liposomes to Alleviate the Toxicity of Chelerythrine, a Natural PKC Inhibitor, in Treating Non-Small Cell Lung Cancer. Frontiers in Oncology, 2021, 11, 658543.	2.8	3
128	Report: Regional variation in the chemical composition and antioxidant activity of Rosmarinus officinalis L. from China and the Mediterranean region. Pakistan Journal of Pharmaceutical Sciences, 2018, 31, 221-229.	0.2	3
129	Chemical Composition and Protective Effect of Dichloromethane Extract From Piper nigrum and P. longum on the OGD Model. Chemistry of Natural Compounds, 2019, 55, 178-182.	0.8	2
130	A new lignan from the leaves of Loropetalum chinensis. Chemistry of Natural Compounds, 2011, 47, 690-692.	0.8	1
131	The MDM2/MDMX/p53 axis in the adaptive stress response. Translational Cancer Research, 2020, 9, 1993-1997.	1.0	1
132	Male granulomatous mastitis with hidradenitis suppurativa, a rarely encountered disorder. Breast Journal, 2020, 26, 2058-2059.	1.0	1
133	Optimization and evaluation of resveratrol amorphous solid dispersions with a novel polymeric system. Mathematical Biosciences and Engineering, 2022, 19, 8019-8034.	1.9	1
134	Electromagnetic energy transfer in nanoscale metallic waveguide arrays. , 2004, , .		0
135	Quantitative Analysis of Artemisinin Derivatives: Applications and Techniques. Separation and Purification Reviews, 2019, 48, 242-266.	5.5	O