

Xiaobing Wang

List of Publications by Citations

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163
papers

5,593
citations

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66
g-index

188
ext. papers

7,063
ext. citations

8.2
avg, IF

5.99
L-index

#	Paper	IF	Citations
163	Bright Aggregation-Induced-Emission Dots for Targeted Synergetic NIR-II Fluorescence and NIR-I Photoacoustic Imaging of Orthotopic Brain Tumors. <i>Advanced Materials</i> , 2018 , 30, e1800766	24	246
162	Through Scalp and Skull NIR-II Photothermal Therapy of Deep Orthotopic Brain Tumors with Precise Photoacoustic Imaging Guidance. <i>Advanced Materials</i> , 2018 , 30, e1802591	24	235
161	Molecular imaging-guided photothermal/photodynamic therapy against tumor by iRGD-modified indocyanine green nanoparticles. <i>Journal of Controlled Release</i> , 2016 , 224, 217-228	11.7	169
160	A Force to Be Reckoned With: A Review of Synthetic Microswimmers Powered by Ultrasound. <i>Small</i> , 2015 , 11, 2836-46	11	153
159	Molecular Engineering of Conjugated Polymers for Biocompatible Organic Nanoparticles with Highly Efficient Photoacoustic and Photothermal Performance in Cancer Theranostics. <i>ACS Nano</i> , 2017 , 11, 10124-10134	16.7	140
158	Deep learning based classification of breast tumors with shear-wave elastography. <i>Ultrasonics</i> , 2016 , 72, 150-7	3.5	128
157	Single-Layer MoS ₂ Nanosheets with Amplified Photoacoustic Effect for Highly Sensitive Photoacoustic Imaging of Orthotopic Brain Tumors. <i>Advanced Functional Materials</i> , 2016 , 26, 8715-8725	15.6	110
156	Precise Deciphering of Brain Vasculatures and Microscopic Tumors with Dual NIR-II Fluorescence and Photoacoustic Imaging. <i>Advanced Materials</i> , 2019 , 31, e1902504	24	107
155	MR imaging tracking of inflammation-activatable engineered neutrophils for targeted therapy of surgically treated glioma. <i>Nature Communications</i> , 2018 , 9, 4777	17.4	107
154	NIR-Laser-Controlled Drug Release from DOX/IR-780-Loaded Temperature-Sensitive-Liposomes for Chemo-Photothermal Synergistic Tumor Therapy. <i>Theranostics</i> , 2016 , 6, 2337-2351	12.1	106
153	Activatable albumin-photosensitizer nanoassemblies for triple-modal imaging and thermal-modulated photodynamic therapy of cancer. <i>Biomaterials</i> , 2016 , 93, 10-19	15.6	106
152	Biocompatible conjugated polymer nanoparticles for highly efficient photoacoustic imaging of orthotopic brain tumors in the second near-infrared window. <i>Materials Horizons</i> , 2017 , 4, 1151-1156	14.4	98
151	Localized delivery of curcumin into brain with polysorbate 80-modified cerasomes by ultrasound-targeted microbubble destruction for improved Parkinson's disease therapy. <i>Theranostics</i> , 2018 , 8, 2264-2277	12.1	94
150	Phototheranostics: Active Targeting of Orthotopic Glioma Using Biomimetic Proteolipid Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 386-398	16.7	92
149	Multiregional radiomics features from multiparametric MRI for prediction of MGMT methylation status in glioblastoma multiforme: A multicentre study. <i>European Radiology</i> , 2018 , 28, 3640-3650	8	85
148	Intravascular optical-resolution photoacoustic tomography with a 1.1 mm diameter catheter. <i>PLoS ONE</i> , 2014 , 9, e92463	3.7	82
147	Sinoporphyrin sodium triggered sono-photodynamic effects on breast cancer both in vitro and in vivo. <i>Ultrasonics Sonochemistry</i> , 2016 , 31, 437-48	8.9	71

146	Ultrasound-Responsive Polymeric Micelles for Sonoporation-Assisted Site-Specific Therapeutic Action. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25706-25716	9.5	70
145	Analysis of the in vivo and in vitro effects of photodynamic therapy on breast cancer by using a sensitizer, sinoporphyrin sodium. <i>Theranostics</i> , 2015 , 5, 772-86	12.1	70
144	Monitoring the Opening and Recovery of the Blood-Brain Barrier with Noninvasive Molecular Imaging by Biodegradable Ultrasmall CuSe Nanoparticles. <i>Nano Letters</i> , 2018 , 18, 4985-4992	11.5	67
143	Image-Guided Hydrogen Gas Delivery for Protection from Myocardial Ischemia-Reperfusion Injury via Microbubbles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21190-21199	9.5	66
142	Sonoelastomics for Breast Tumor Classification: A Radiomics Approach with Clustering-Based Feature Selection on Sonoelastography. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1058-1069	3.5	65
141	Indocyanine Green-holo-Transferrin Nanoassemblies for Tumor-Targeted Dual-Modal Imaging and Photothermal Therapy of Glioma. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39249-39258	9.5	62
140	IR-780 Dye as a Sonosensitizer for Sonodynamic Therapy of Breast Tumor. <i>Scientific Reports</i> , 2016 , 6, 25968	4.9	59
139	Rigid nanoparticle-based delivery of anti-cancer siRNA: challenges and opportunities. <i>Biotechnology Advances</i> , 2014 , 32, 831-43	17.8	59
138	Second near-infrared photodynamic therapy and chemotherapy of orthotopic malignant glioblastoma with ultra-small CuSe nanoparticles. <i>Nanoscale</i> , 2019 , 11, 7600-7608	7.7	58
137	The Mechanosensitive Ion Channel Piezo1 Significantly Mediates In Vitro Ultrasonic Stimulation of Neurons. <i>iScience</i> , 2019 , 21, 448-457	6.1	58
136	Reversal of multidrug resistance phenotype in human breast cancer cells using doxorubicin-liposome-microbubble complexes assisted by ultrasound. <i>Journal of Controlled Release</i> , 2014 , 174, 109-16	11.7	58
135	Precise and programmable manipulation of microbubbles by two-dimensional standing surface acoustic waves. <i>Applied Physics Letters</i> , 2012 , 100, 173701	3.4	56
134	Focused ultrasound-augmented targeting delivery of nanosonosensitizers from homogenous exosomes for enhanced sonodynamic cancer therapy. <i>Theranostics</i> , 2019 , 9, 5261-5281	12.1	54
133	Current status and future perspectives of sonodynamic therapy in glioma treatment. <i>Ultrasonics Sonochemistry</i> , 2017 , 37, 592-599	8.9	53
132	Activatable Small-Molecule Photoacoustic Probes that Cross the Blood-Brain Barrier for Visualization of Copper(II) in Mice with Alzheimer's Disease. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12415-12419	16.4	53
131	Hyperthermia-triggered drug delivery from iRGD-modified temperature-sensitive liposomes enhances the anti-tumor efficacy using high intensity focused ultrasound. <i>Journal of Controlled Release</i> , 2016 , 243, 333-341	11.7	51
130	Enhanced delivery of paclitaxel liposomes using focused ultrasound with microbubbles for treating nude mice bearing intracranial glioblastoma xenografts. <i>International Journal of Nanomedicine</i> , 2017 , 12, 5613-5629	7.3	51
129	Sinoporphyrin sodium, a novel sensitizer, triggers mitochondrial-dependent apoptosis in ECA-109 cells via production of reactive oxygen species. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3077-90	7.3	50

128	Photodynamic antimicrobial chemotherapy for and multidrug-resistant bacterial burn infection in vitro and in vivo. <i>International Journal of Nanomedicine</i> , 2017 , 12, 5915-5931	7.3	49
127	Focused Ultrasound-Augmented Delivery of Biodegradable Multifunctional Nanoplatfoms for Imaging-Guided Brain Tumor Treatment. <i>Advanced Science</i> , 2018 , 5, 1700474	13.6	48
126	Enhanced drug delivery using sonoactivatable liposomes with membrane-embedded porphyrins. <i>Journal of Controlled Release</i> , 2018 , 286, 358-368	11.7	48
125	Superhydrophobic silica nanoparticles as ultrasound contrast agents. <i>Ultrasonics Sonochemistry</i> , 2017 , 36, 262-269	8.9	45
124	Differentiation of clear cell and non-clear cell renal cell carcinomas by all-relevant radiomics features from multiphase CT: a VHL mutation perspective. <i>European Radiology</i> , 2019 , 29, 3996-4007	8	44
123	Multiregional radiomics profiling from multiparametric MRI: Identifying an imaging predictor of IDH1 mutation status in glioblastoma. <i>Cancer Medicine</i> , 2018 , 7, 5999-6009	4.8	44
122	Gypenosides Synergistically Enhances the Anti-Tumor Effect of 5-Fluorouracil on Colorectal Cancer In Vitro and In Vivo: A Role for Oxidative Stress-Mediated DNA Damage and p53 Activation. <i>PLoS ONE</i> , 2015 , 10, e0137888	3.7	43
121	A new sensitizer DVDMS combined with multiple focused ultrasound treatments: an effective antitumor strategy. <i>Scientific Reports</i> , 2015 , 5, 17485	4.9	42
120	Manipulation of Mitophagy by "All-in-One" nanosensitizer augments sonodynamic glioma therapy. <i>Autophagy</i> , 2020 , 16, 1413-1435	10.2	42
119	Tumor targeting DVDMS-nanoliposomes for an enhanced sonodynamic therapy of gliomas. <i>Biomaterials Science</i> , 2019 , 7, 985-994	7.4	41
118	Antimicrobial properties of a new type of photosensitizer derived from phthalocyanine against planktonic and biofilm forms of Staphylococcus aureus. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018 , 21, 316-326	3.5	40
117	Six Birds with One Stone: Versatile Nanoporphyrin for Single-Laser-Triggered Synergistic Phototheranostics and Robust Immune Activation. <i>Advanced Materials</i> , 2020 , 32, e2004481	24	40
116	Smart Hydrogel-Based DVDMS/bFGF Nanohybrids for Antibacterial Phototherapy with Multiple Damaging Sites and Accelerated Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10156-10169	9.5	39
115	Ultrasonic super-oscillation wave-packets with an acoustic meta-lens. <i>Nature Communications</i> , 2019 , 10, 3411	17.4	37
114	Computer-aided diagnosis based on quantitative elastographic features with supersonic shear wave imaging. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 275-86	3.5	37
113	Role of autophagy in sonodynamic therapy-induced cytotoxicity in S180 cells. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1933-46	3.5	37
112	Activatable NIR-II photoacoustic imaging and photochemical synergistic therapy of MRSA infections using miniature Au/Ag nanorods. <i>Biomaterials</i> , 2020 , 251, 120092	15.6	37
111	Protein-Modified CuS Nanotriangles: A Potential Multimodal Nanoplatfom for In Vivo Tumor Photoacoustic/Magnetic Resonance Dual-Modal Imaging. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601094	10.1	36

110	Quantification of elastic heterogeneity using contourlet-based texture analysis in shear-wave elastography for breast tumor classification. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 588-600	3.5	36
109	Localized Delivery of shRNA against PHD2 Protects the Heart from Acute Myocardial Infarction through Ultrasound-Targeted Cationic Microbubble Destruction. <i>Theranostics</i> , 2017 , 7, 51-66	12.1	35
108	Highly Sensitive MoS-Indocyanine Green Hybrid for Photoacoustic Imaging of Orthotopic Brain Glioma at Deep Site. <i>Nano-Micro Letters</i> , 2018 , 10, 48	19.5	35
107	Ultrasound triggered image-guided drug delivery to inhibit vascular reconstruction via paclitaxel-loaded microbubbles. <i>Scientific Reports</i> , 2016 , 6, 21683	4.9	34
106	Microbubbles Enhance the Antitumor Effects of Sinoporphyrin Sodium Mediated Sonodynamic Therapy both In Vitro and In Vivo. <i>International Journal of Biological Sciences</i> , 2015 , 11, 1401-9	11.2	34
105	Ultrasound-triggered release of sinoporphyrin sodium from liposome-microbubble complexes and its enhanced sonodynamic toxicity in breast cancer. <i>Nano Research</i> , 2018 , 11, 1038-1056	10	33
104	Ultrasound Facilitates Naturally Equipped Exosomes Derived from Macrophages and Blood Serum for Orthotopic Glioma Treatment. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14576-14587	9.5	31
103	Inertial cavitation initiated by polytetrafluoroethylene nanoparticles under pulsed ultrasound stimulation. <i>Ultrasonics Sonochemistry</i> , 2016 , 32, 1-7	8.9	31
102	Sinoporphyrin sodium: a novel sensitizer in sonodynamic therapy. <i>Anti-Cancer Drugs</i> , 2014 , 25, 174-82	2.4	31
101	A Disposable Microfluidic Device for Controlled Drug Release from Thermal-Sensitive Liposomes by High Intensity Focused Ultrasound. <i>Theranostics</i> , 2015 , 5, 1203-13	12.1	30
100	On-chip targeted single cell sonoporation with microbubble destruction excited by surface acoustic waves. <i>Applied Physics Letters</i> , 2014 , 104, 073701	3.4	30
99	Noninvasive Ultrasound Deep Brain Stimulation for the Treatment of Parkinson's Disease Model Mouse. <i>Research</i> , 2019 , 2019, 1748489	7.8	30
98	Self-assembled AIEgen nanoparticles for multiscale NIR-II vascular imaging. <i>Biomaterials</i> , 2021 , 264, 120365	16.5	29
97	Enhanced anti-tumor efficacy of hyaluronic acid modified nanocomposites combined with sonochemotherapy against subcutaneous and metastatic breast tumors. <i>Nanoscale</i> , 2019 , 11, 11470-11483	7.7	28
96	Involvement of mitochondrial and reactive oxygen species in the sonodynamic toxicity of chlorin e6 in human leukemia K562 cells. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 990-1000	3.5	28
95	Sensitivity to antitubulin chemotherapeutics is potentiated by a photoactivable nanoliposome. <i>Biomaterials</i> , 2017 , 141, 50-62	15.6	28
94	Initiation of autophagy and apoptosis by sonodynamic therapy in murine leukemia L1210 cells. <i>Toxicology in Vitro</i> , 2013 , 27, 1247-59	3.6	27
93	Ultrasmall theranostic nanozymes to modulate tumor hypoxia for augmenting photodynamic therapy and radiotherapy. <i>Biomaterials Science</i> , 2020 , 8, 973-987	7.4	27

92	Highly penetrative liposome nanomedicine generated by a biomimetic strategy for enhanced cancer chemotherapy. <i>Biomaterials Science</i> , 2018 , 6, 1546-1555	7.4	26
91	Acoustic trapping of particle by a periodically structured stiff plate. <i>Applied Physics Letters</i> , 2011 , 99, 253505	3.4	26
90	Sonodynamically induced anti-tumor effect with protoporphyrin IX on hepatoma-22 solid tumor. <i>Ultrasonics</i> , 2011 , 51, 539-46	3.5	26
89	Nanostructural Control Enables Optimized Photoacoustic Fluorescence Magnetic Resonance Multimodal Imaging and Photothermal Therapy of Brain Tumor. <i>Advanced Functional Materials</i> , 2020 , 30, 1907077	15.6	26
88	A Lipopeptide-Based α ₅ β ₁ Integrin-Targeted Ultrasound Contrast Agent for Molecular Imaging of Tumor Angiogenesis. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 2765-73	3.5	25
87	Monitoring Tumor Hypoxia Using (18)F-FMISO PET and Pharmacokinetics Modeling after Photodynamic Therapy. <i>Scientific Reports</i> , 2016 , 6, 31551	4.9	24
86	Synthesis, Characterization, and Biological Evaluation of a Porphyrin-Based Photosensitizer and Its Isomer for Effective Photodynamic Therapy against Breast Cancer. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 7189-7201	8.3	24
85	Comparison of pharmacokinetics, intracellular localizations and sonodynamic efficacy of endogenous and exogenous protoporphyrin IX in sarcoma 180 cells. <i>Ultrasonics</i> , 2010 , 50, 803-10	3.5	24
84	Mechanisms of enhanced antiglioma efficacy of polysorbate 80-modified paclitaxel-loaded PLGA nanoparticles by focused ultrasound. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 4171-4182	5.6	23
83	Template-Free Synthesis of Hollow/Porous Organosilica-FeO Hybrid Nanocapsules toward Magnetic Resonance Imaging-Guided High-Intensity Focused Ultrasound Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29986-29996	9.5	22
82	Core-shell zeolite Y with ant-nest like hollow interior constructed by amino acids and enhanced catalytic activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20757-20764	13	22
81	Sonodynamic action of hypocrellin B triggers cell apoptosis of breast cancer cells involving caspase pathway. <i>Ultrasonics</i> , 2017 , 73, 154-161	3.5	22
80	Recent Advances in Conjugated Polymer Nanoparticles for NIR-II Imaging and Therapy. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 4241-4257	4.3	22
79	Cell membrane based biomimetic nanocomposites for targeted therapy of drug resistant EGFR-mutated lung cancer. <i>Nanoscale</i> , 2019 , 11, 19520-19528	7.7	22
78	Non-invasive ultrasonic neuromodulation of neuronal excitability for treatment of epilepsy. <i>Theranostics</i> , 2020 , 10, 5514-5526	12.1	21
77	Fiber Resonance Energy Transfer-Based Dual-Modal Theranostic Nanoprobe for Visualization of Cancer Photothermal Therapy. <i>Theranostics</i> , 2018 , 8, 410-422	12.1	20
76	Centimeter-Deep NIR-II Fluorescence Imaging with Nontoxic AIE Probes in Nonhuman Primates. <i>Research</i> , 2020 , 2020, 4074593	7.8	19
75	Comparison of cell membrane damage induced by the therapeutic ultrasound on human breast cancer MCF-7 and MCF-7/ADR cells. <i>Ultrasonics Sonochemistry</i> , 2015 , 26, 128-135	8.9	18

74	The antibacterial effect of sinoporphyrin sodium photodynamic therapy on Staphylococcus aureus planktonic and biofilm cultures. <i>Lasers in Surgery and Medicine</i> , 2016 , 48, 400-8	3.6	18
73	Involvement of MAPK activation and ROS generation in human leukemia U937 cells undergoing apoptosis in response to sonodynamic therapy. <i>International Journal of Radiation Biology</i> , 2013 , 89, 915-27	2.9	18
72	Biomimetic Nanocomposites Cloaked with Bioorthogonally Labeled Glioblastoma Cell Membrane for Targeted Multimodal Imaging of Brain Tumors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004346	15.6	18
71	Activation of microbubbles by low-intensity pulsed ultrasound enhances the cytotoxicity of curcumin involving apoptosis induction and cell motility inhibition in human breast cancer MDA-MB-231 cells. <i>Ultrasonics Sonochemistry</i> , 2016 , 33, 26-36	8.9	18
70	Active Acoustic Metasurface: Complete Elimination of Grating Lobes for High-Quality Ultrasound Focusing and Controllable Steering. <i>Physical Review Applied</i> , 2019 , 11,	4.3	17
69	Computer-assisted assessment of ultrasound real-time elastography: initial experience in 145 breast lesions. <i>European Journal of Radiology</i> , 2014 , 83, e1-7	4.7	17
68	Spatial selective manipulation of microbubbles by tunable surface acoustic waves. <i>Biomicrofluidics</i> , 2016 , 10, 034121	3.2	17
67	Dual-mode artificially-intelligent diagnosis of breast tumours in shear-wave elastography and B-mode ultrasound using deep polynomial networks. <i>Medical Engineering and Physics</i> , 2019 , 64, 1-6	2.4	17
66	Classification of Carotid Plaque Echogenicity by Combining Texture Features and Morphologic Characteristics. <i>Journal of Ultrasound in Medicine</i> , 2016 , 35, 2253-61	2.9	15
65	On-Chip Ultrasound Modulation of Pyramidal Neuronal Activity in Hippocampal Slices. <i>Advanced Biology</i> , 2018 , 2, 1800041	3.5	15
64	Recent advances in functional nanomaterials for photoacoustic imaging of glioma. <i>Nanoscale Horizons</i> , 2019 , 4, 1037-1045	10.8	14
63	Bioeffects of low-energy continuous ultrasound on isolated sarcoma 180 cells. <i>Chemotherapy</i> , 2009 , 55, 253-61	3.2	14
62	Acoustic manipulation of particles in a cylindrical cavity: Theoretical and experimental study on the effects of boundary conditions. <i>Ultrasonics</i> , 2019 , 93, 18-25	3.5	14
61	Combination of Protoporphyrin IX-mediated Sonodynamic Treatment with Doxorubicin Synergistically Induced Apoptotic Cell Death of a Multidrug-Resistant Leukemia K562/DOX Cell Line. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 2731-9	3.5	13
60	The Application of DVDMS as a Sensitizing Agent for Sono-/Photo-Therapy. <i>Frontiers in Pharmacology</i> , 2020 , 11, 19	5.6	13
59	Image reconstruction from few-view CT data by gradient-domain dictionary learning. <i>Journal of X-Ray Science and Technology</i> , 2016 , 24, 627-38	2.1	13
58	A novel dual-frequency imaging method for intravascular ultrasound applications. <i>Ultrasonics</i> , 2015 , 57, 31-5	3.5	13
57	Combining TGF- β 1 knockdown and miR200c administration to optimize antitumor efficacy of B16F10/GPI-IL-21 vaccine. <i>Oncotarget</i> , 2015 , 6, 12493-504	3.3	13

56	Comparison of photodynamic treatment produced cell damage between human breast cancer cell MCF-7 and its multidrug resistance cell. <i>Photodiagnosis and Photodynamic Therapy</i> , 2016 , 16, 1-8	3.5	13
55	Phononic Crystal Tunable via Ferroelectric Phase Transition. <i>Physical Review Applied</i> , 2015 , 4,	4.3	12
54	Induction of Mitochondrial Dependent Apoptosis in Human Leukemia K562 Cells by <i>Meconopsis integrifolia</i> : A Species from Traditional Tibetan Medicine. <i>Molecules</i> , 2015 , 20, 11981-93	4.8	12
53	The study of antiviral drugs targeting SARS-CoV-2 nucleocapsid and spike proteins through large-scale compound repurposing. <i>Heliyon</i> , 2021 , 7, e06387	3.6	12
52	Photoacoustic Imaging: Bright Aggregation-Induced-Emission Dots for Targeted Synergetic NIR-II Fluorescence and NIR-I Photoacoustic Imaging of Orthotopic Brain Tumors (Adv. Mater. 29/2018). <i>Advanced Materials</i> , 2018 , 30, 1870214	24	11
51	Ultrasound-mediated augmented exosome release from astrocytes alleviates amyloid- β -induced neurotoxicity. <i>Theranostics</i> , 2021 , 11, 4351-4362	12.1	11
50	Ultrasound Neuromodulation Inhibits Seizures in Acute Epileptic Monkeys. <i>IScience</i> , 2020 , 23, 101066	6.1	10
49	Ultrasound molecular imaging of vascular endothelial growth factor receptor 2 expression for endometrial receptivity evaluation. <i>Theranostics</i> , 2015 , 5, 206-17	12.1	10
48	ERK inhibitor U0126 enhanced SDT-induced cytotoxicity of human leukemia U937 cells. <i>General Physiology and Biophysics</i> , 2014 , 33, 295-309	2.1	10
47	Comparisons among sensitivities of different tumor cells to focused ultrasound in vitro. <i>Ultrasonics</i> , 2009 , 49, 558-64	3.5	10
46	Interaction and oxidative damage of DVDMS to BSA: a study on the mechanism of photodynamic therapy-induced cell death. <i>Scientific Reports</i> , 2017 , 7, 43324	4.9	9
45	Epsilon-caprolactone modified polyethylenimine for highly efficient antigen delivery and chemical exchange saturation transfer functional MR imaging. <i>Biomaterials</i> , 2015 , 56, 219-28	15.6	9
44	A novel dual-targeted ultrasound contrast agent provides improvement of gene delivery efficiency in vitro. <i>Tumor Biology</i> , 2016 , 37, 8609-19	2.9	9
43	Highly Sensitive Fluorescence and Photoacoustic Detection of Metastatic Breast Cancer in Mice Using Dual-Modal Nanoprobes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26064-26074	9.5	9
42	ϵ Caprolactone-Modified Polyethylenimine as Efficient Nanocarriers for siRNA Delivery in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29261-29269	9.5	9
41	Noninvasive ultrasound deep brain stimulation of nucleus accumbens induces behavioral avoidance. <i>Science China Life Sciences</i> , 2020 , 63, 1328-1336	8.5	8
40	Active-Targeting NIR-II Phototheranostics in Multiple Tumor Models Using Platelet-Camouflaged Nanoprobes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55624-55637	9.5	8
39	Metabolizable Near-Infrared-II Nanoprobes for Dynamic Imaging of Deep-Seated Tumor-Associated Macrophages in Pancreatic Cancer. <i>ACS Nano</i> , 2021 , 15, 10010-10024	16.7	8

38	Low-intensity pulsed ultrasound ameliorates depression-like behaviors in a rat model of chronic unpredictable stress. <i>CNS Neuroscience and Therapeutics</i> , 2021 , 27, 233-243	6.8	8
37	Engineered gold/black phosphorus nanoplateforms with remodeling tumor microenvironment for sonoactivated catalytic tumor theranostics.. <i>Bioactive Materials</i> , 2022 , 10, 515-525	16.7	8
36	Non-invasive Low-Intensity Pulsed Ultrasound Modulates Primary Cilia of Rat Hippocampal Neurons. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1274-1283	3.5	7
35	PIEZO channel protein naturally expressed in human breast cancer cell MDA-MB-231 as probed by atomic force microscopy. <i>AIP Advances</i> , 2018 , 8, 055101	1.5	7
34	Simple, effective fabrication of layered carbon nanotube/graphene hybrid field emitters by electrophoretic deposition. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015 , 33, 011802	1.3	7
33	Polytrichum commune L.ex Hedw ethyl acetate extract-triggered perturbations in intracellular Ca ²⁺ homeostasis regulates mitochondrial-dependent apoptosis. <i>Journal of Ethnopharmacology</i> , 2015 , 172, 410-20	5	6
32	Evaluation of carotid plaque echogenicity based on the integral of the cumulative probability distribution using gray-scale ultrasound images. <i>PLoS ONE</i> , 2017 , 12, e0185261	3.7	6
31	Computational and experimental assessment of influences of hemodynamic shear stress on carotid plaque. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 92	4.1	6
30	Characteristics, composition, and antioxidant activities in vitro and in vivo of Gynostemma pentaphyllum (Thunb.) Makino seed oil. <i>Journal of the Science of Food and Agriculture</i> , 2017 , 97, 2084-2093	4.3	6
29	Magnetic Resonance Imaging of Atherosclerosis Using CD81-Targeted Microparticles of Iron Oxide in Mice. <i>BioMed Research International</i> , 2015 , 2015, 758616	3	6
28	Detection of subclinical atherosclerosis in asymptomatic subjects using ultrasound radiofrequency-tracking technology. <i>PLoS ONE</i> , 2014 , 9, e111926	3.7	6
27	Noninvasive Ultrasound Stimulation of Ventral Tegmental Area Induces Reanimation from General Anaesthesia in Mice. <i>Research</i> , 2021 , 2021, 2674692	7.8	6
26	Tiny 2D silicon quantum sheets: a brain photonic nanoagent for orthotopic glioma theranostics. <i>Science Bulletin</i> , 2021 , 66, 147-157	10.6	6
25	Influence of vascular geometry on local hemodynamic parameters: phantom and small rodent study. <i>BioMedical Engineering OnLine</i> , 2018 , 17, 30	4.1	5
24	High-Specificity In Vivo Tumor Imaging Using Bioorthogonal NIR-IIb Nanoparticles. <i>Advanced Materials</i> , 2021 , e2102950	24	5
23	Highly Efficient Water-Soluble Photosensitizer Based on Chlorin: Synthesis, Characterization, and Evaluation for Photodynamic Therapy. <i>ACS Pharmacology and Translational Science</i> , 2021 , 4, 802-812	5.9	5
22	Strong localization of an acoustic wave in a sub-wavelength slot between two plates. <i>Journal of the Acoustical Society of America</i> , 2015 , 137, 1251-6	2.2	4
21	An open system for intravascular ultrasound imaging 2012 ,		4

20	Ultrasound Molecular Imaging of Lymphocyte-endothelium Adhesion Cascade in Acute Cellular Rejection of Cardiac Allografts. <i>Transplantation</i> , 2019 , 103, 1603-1611	1.8	4
19	Achromatic metasurfaces by dispersion customization for ultra-broadband acoustic beam engineering. <i>National Science Review</i> ,	10.8	4
18	Standard deviation of carotid young's modulus and presence or absence of plaque improves prediction of coronary heart disease risk. <i>Clinical Physiology and Functional Imaging</i> , 2017 , 37, 682-687	2.4	3
17	Activatable Small-Molecule Photoacoustic Probes that Cross the Blood-Brain Barrier for Visualization of Copper(II) in Mice with Alzheimer's Disease. <i>Angewandte Chemie</i> , 2019 , 131, 12545-12549	3.6	3
16	Targeted imaging of orthotopic prostate cancer by using clinical transformable photoacoustic molecular probe. <i>BMC Cancer</i> , 2020 , 20, 419	4.8	2
15	Synthesis and evolution of S-Porphin sodium as a potential antitumor agent for photodynamic therapy against breast cancer. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 362-372	5.2	2
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7	A digital multigate Doppler method for high frequency ultrasound. <i>Sensors</i> , 2014 , 14, 13348-60	3.8	1
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