

Siyuan Zhang

List of Publications by Year in descending order

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71
papers

2,281
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257450

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docs citations

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times ranked

3773
citing authors

#	ARTICLE	IF	CITATIONS
1	Conjugated Side-Chain-Isolated D ^π A Copolymers Based on Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene- <i>alt</i> -dithienylbenzotriazole: Synthesis and Photovoltaic Properties. <i>Chemistry of Materials</i> , 2012, 24, 3247-3254.	6.7	273
2	Controlled Doping of Large-Area Trilayer MoS ₂ with Molecular Reductants and Oxidants. <i>Advanced Materials</i> , 2015, 27, 1175-1181.	21.0	183
3	Realization of mid-infrared graphene hyperbolic metamaterials. <i>Nature Communications</i> , 2016, 7, 10568.	12.8	183
4	Effective Solution- and Vacuum-Processed n-Doping by Dimers of Benzimidazoline Radicals. <i>Advanced Materials</i> , 2014, 26, 4268-4272.	21.0	139
5	Enhancing Field-Effect Mobility of Conjugated Polymers Through Rational Design of Branched Side Chains. <i>Advanced Functional Materials</i> , 2014, 24, 3734-3744.	14.9	112
6	Controllable, Wide-Ranging n-Doping and p-Doping of Monolayer Group 6 Transition-Metal Disulfides and Diselenides. <i>Advanced Materials</i> , 2018, 30, e1802991.	21.0	97
7	Alkyl chain engineering on a dithieno[3,2- <i>b</i> :2,3- <i>d'</i>]silole- <i>alt</i> -dithienylthiazolo[5,4- <i>d</i>]thiazole copolymer toward high performance bulk heterojunction solar cells. <i>Chemical Communications</i> , 2011, 47, 9474.	4.1	94
8	Synthesis and Photovoltaic Properties of D ^π A Copolymers Based on Dithienosilole and Benzotriazole. <i>Macromolecules</i> , 2011, 44, 7632-7638.	4.8	93
9	Unipolar Electron Transport Polymers: A Thiazole Based All-Electron Acceptor Approach. <i>Chemistry of Materials</i> , 2016, 28, 6045-6049.	6.7	85
10	Production of heavily n- and p-doped CVD graphene with solution-processed redox-active metal-organic species. <i>Materials Horizons</i> , 2014, 1, 111-115.	12.2	67
11	Dynamic Changes of Integrated Backscatter, Attenuation Coefficient and Bubble Activities During High-Intensity Focused Ultrasound (HIFU) Treatment. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1828-1844.	1.5	63
12	KO ^t Bu-Initiated Aryl C-H Iodination: A Powerful Tool for the Synthesis of High Electron Affinity Compounds. <i>Journal of the American Chemical Society</i> , 2016, 138, 3946-3949.	13.7	57
13	Feasibility of using Nakagami distribution in evaluating the formation of ultrasound-induced thermal lesions. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 4836-4844.	1.1	53
14	Conjugated Side-Chain Isolated Polythiophene: Synthesis and Photovoltaic Application. <i>Macromolecules</i> , 2012, 45, 113-118.	4.8	53
15	Side Chain Engineering of Polythiophene Derivatives with a Thienylene-Vinylene Conjugated Side Chain for Application in Polymer Solar Cells. <i>Macromolecules</i> , 2012, 45, 2312-2320.	4.8	50
16	Comparison of the Optical and Electrochemical Properties of Bi(perylene diimide)s Linked through Ortho and Bay Positions. <i>ACS Omega</i> , 2017, 2, 377-385.	3.5	41
17	Synthesis and photovoltaic properties of copolymers of carbazole and thiophene with conjugated side chain containing acceptor end groups. <i>Polymer Chemistry</i> , 2011, 2, 1678.	3.9	37
18	Full-field fan-beam x-ray fluorescence computed tomography with a conventional x-ray tube and photon-counting detectors for fast nanoparticle bioimaging. <i>Optical Engineering</i> , 2017, 56, 043106.	1.0	33

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19	nâ€Dopants Based on Dimers of Benzimidazoline Radicals: Structures and Mechanism of Redox Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 10878-10885.	3.3	31
20	<i>Ex Vivo</i> and <i>In Vivo</i> Monitoring and Characterization of Thermal Lesions by High-Intensity Focused Ultrasound and Microwave Ablation Using Ultrasonic Nakagami Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1701-1710.	8.9	29
21	Enhanced Lesionâ€Bubble Ratio on Ultrasonic Nakagami Imaging for Monitoring of Highâ€Intensity Focused Ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2014, 33, 959-970.	1.7	27
22	Comparison of 3D non-fullerene acceptors for organic photovoltaics based on naphthalene diimide and perylene diimide-substituted 9,9â€2-bifluorenylidene. <i>RSC Advances</i> , 2016, 6, 70493-70500.	3.6	27
23	Photochemical Doping and Tuning of the Work Function and Dirac Point in Graphene Using Photoacid and Photobase Generators. <i>Advanced Functional Materials</i> , 2014, 24, 5147-5156.	14.9	25
24	Facile Doping and Workâ€Function Modification of Fewâ€Layer Graphene Using Molecular Oxidants and Reductants. <i>Advanced Functional Materials</i> , 2017, 27, 1602004.	14.9	25
25	Solution-Processed Doping of Trilayer WSe₂ with Redox-Active Molecules. <i>Chemistry of Materials</i> , 2017, 29, 7296-7304.	6.7	25
26	Improved contacts to p-type MoS2 transistors by charge-transfer doping and contact engineering. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	25
27	Enhanced neuronal activity in mouse motor cortex with microbubblesâ€™ oscillations by transcranial focused ultrasound stimulation. <i>Ultrasonics Sonochemistry</i> , 2019, 59, 104745.	8.2	24
28	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. <i>Materials Advances</i> , 2021, 2, 1253-1262.	5.4	23
29	Minimizing the thermal losses from perfusion during focused ultrasound exposures with flowing microbubbles. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 2336-2344.	1.1	22
30	Bubble size distribution in acoustic droplet vaporization via dissolution using an ultrasound wide-beam method. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 975-983.	8.2	22
31	Compare ultrasound-mediated heating and cavitation between flowing polymer- and lipid-shelled microbubbles during focused ultrasound exposures. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 4845-4855.	1.1	19
32	Increasing Axial Resolution of Ultrasonic Imaging With a Joint Sparse Representation Model. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 2045-2056.	3.0	19
33	Efficient Hybrid Mixedâ€Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. <i>Solar Rrl</i> , 2020, 4, 2000272.	5.8	19
34	Intermediate-Sized Conjugated Donor Molecules for Organic Solar Cells: Comparison of Benzodithiophene and Benzobisthiazole-Based Cores. <i>Chemistry of Materials</i> , 2017, 29, 7880-7887.	6.7	17
35	Matrix vesicles from dental follicle cells improve alveolar bone regeneration via activation of the PLC/PKC/MAPK pathway. <i>Stem Cell Research and Therapy</i> , 2022, 13, 41.	5.5	17
36	Surface vibration and nearby cavitation of an <i>ex vivo</i> bovine femur exposed to high intensity focused ultrasound. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 1656-1662.	1.1	15

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37	Feasibility of Using Ultrasonic Nakagami Imaging for Monitoring Microwave-Induced Thermal Lesion in Ex Vivo Porcine Liver. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 482-493.	1.5	15
38	Inverse effects of flowing phase-shift nanodroplets and lipid-shelled microbubbles on subsequent cavitation during focused ultrasound exposures. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 400-409.	8.2	15
39	Detection and Monitoring of Thermal Lesions Induced by Microwave Ablation Using Ultrasound Imaging and Convolutional Neural Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 965-973.	6.3	15
40	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34402-34412.	8.0	15
41	Effect of acceptor substituents on photophysical and photovoltaic properties of triphenylamine-carbazole alternating copolymers. <i>Synthetic Metals</i> , 2011, 161, 1383-1389.	3.9	14
42	Cavitation characteristics of flowing low and high boiling-point perfluorocarbon phase-shift nanodroplets during focused ultrasound exposures. <i>Ultrasonics Sonochemistry</i> , 2020, 65, 105060.	8.2	12
43	<i>In vivo</i> monitoring of microwave ablation in a porcine model using ultrasonic differential attenuation coefficient intercept imaging. <i>International Journal of Hyperthermia</i> , 2018, 34, 1157-1170.	2.5	11
44	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2277-2285.	4.3	10
45	Effect of scattered pressures from oscillating microbubbles on neuronal activity in mouse brain under transcranial focused ultrasound stimulation. <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104935.	8.2	9
46	Scattering Noise Model Enhanced EM-TV Algorithm for Benchtop X-ray Fluorescence Computed Tomography Image Reconstruction. <i>IEEE Access</i> , 2019, 7, 113589-113595.	4.2	6
47	Real-time dosimeter based on LiF:Mg,Cu,P and SiPM. <i>Radiation Measurements</i> , 2021, 145, 106607.	1.4	6
48	Mid-infrared hyperbolic metamaterial based on graphene-dielectric multilayers. , 2015, , .		3
49	Ultrasonic concentration imaging of cavitation bubbles using Nakagami statistical model. , 2016, , .		3
50	Per- and poly-fluoroalkyl substances in sediments from the water-level-fluctuation zone of the Three Gorges Reservoir, China: Contamination characteristics, source apportionment, and mass inventory and loadings. <i>Environmental Pollution</i> , 2022, 299, 118895.	7.5	3
51	XFCT imaging system with pinhole collimation and attenuation correction. , 2016, , .		2
52	Time and Frequency Characteristics of Cavitation Activity Enhanced by Flowing Phase-Shift Nanodroplets and Lipid-Shelled Microbubbles During Focused Ultrasound Exposures. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 2118-2132.	1.5	2
53	A RADIOLUMINESCENCE STUDY OF DOSE CHARACTERISTICS OF LIF:MG,TI. <i>Radiation Protection Dosimetry</i> , 2021, 195, 69-74.	0.8	2
54	Formation of two-way Lamb waves and force potential wells using single conventional ultrasonic transducer. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	2

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55	Temporal-spatial variations, source apportionment, and ecological risk of trace elements in sediments of water-level-fluctuation zone in the Three Gorges Reservoir, China. Environmental Science and Pollution Research, 2022, 29, 18282-18297.	5.3	2
56	Measurement of lens shutter's switching time in full frame cameras. , 2012, , .		1
57	Synthesis and Photovoltaic Properties of a Polythiophene Derivative with Triphenylamineâ€™Vinylene Conjugated Side Chain Attaching Carbonyl end Group. Advances in Polymer Technology, 2013, 32, .	1.7	1
58	Discover layered structure in ultrasound images with a joint sparse representation model. , 2015, , .		1
59	Feasibility of acoustic evaluation of thermal lesions at bone-soft tissue interface of an ex vivo bovine bone exposed to high-intensity focused ultrasound. , 2015, , .		1
60	Monitoring of microwave ablation in porcine liver using ultrasonic Nakagami imaging. , 2017, , .		1
61	Microbubble-enhanced ultrasonic neuromodulation of motor cortex of mouse. , 2019, , .		1
62	Fan-Beam X-ray Fluorescence Computed Tomography (XFCT) With Gold Nanoparticles. , 2017, , .		1
63	Detection and Monitoring of Microwave Ablation by Ultrasound Imaging Based on Convolutional Neural Network. , 2020, , .		1
64	New X-ray Fluorescence CT (XFCT) System Using Multi-beam X-ray Source. , 2020, , .		1
65	A competitive radioluminescence material - LiF:Mg,Cu,P for real-time dosimetry. Radiation Measurements, 2022, 151, 106719.	1.4	1
66	Overlapped materials decomposition in high-energy dual-energy X-ray system. , 2015, , .		0
67	Monitoring imaging of lesions induced by high intensity focused ultrasound based on a matching pursuit method. , 2015, , .		0
68	Strategy of high efficiency and refined high-intensity focused ultrasound and ultrasound monitoring imaging of thermal lesion and cavitation. AIP Conference Proceedings, 2017, , .	0.4	0
69	Monitoring of microwave ablation in porcine liver using ultrasonic Nakagami imaging. , 2017, , .		0
70	Notice of Removal: Ultrasound imaging with enhanced lesion-to-bubble ratio based on wavelet transform for monitoring of high-intensity focused ultrasound. , 2017, , .		0
71	Microbubble-enhanced ultrasonic neuromodulation of motor cortex of mouse. , 2019, , .		0