

Wei Xiong

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,795
citations

279798

23
h-index

377865

34
g-index

45
all docs

45
docs citations

45
times ranked

2716
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid In-Situ Synthesis and Patterning of Edge-Unsaturated MoS ₂ by Femtosecond Laser-Induced Photo-Chemical Reaction. ACS Applied Materials & Interfaces, 2022, 14, 5558-5566.	8.0	6
2	Composite laser beam separation technology for brittle transparent materials. Optics Letters, 2022, 47, 742.	3.3	5
3	Rapid Solid-Phase Sulfurization Growth and Nonlinear Optical Characterization of Transfer-Free TiS ₃ Nanoribbons. Chemistry of Materials, 2022, 34, 2790-2797.	6.7	11
4	An ultrathin memristor based on a two-dimensional WS ₂ /MoS ₂ heterojunction. Nanoscale, 2021, 13, 11497-11504.	5.6	39
5	2D materials-based homogeneous transistor-memory architecture for neuromorphic hardware. Science, 2021, 373, 1353-1358.	12.6	177
6	Recent advances in optical dynamic meta-holography. Opto-Electronic Advances, 2021, 4, 210030-210030.	13.3	113
7	Interfacial Engineering Regulates Deposition Kinetics of Zinc Metal Anodes. ACS Applied Energy Materials, 2021, 4, 11743-11751.	5.1	8
8	Full-color enhanced second harmonic generation using rainbow trapping in ultrathin hyperbolic metamaterials. Nature Communications, 2021, 12, 6425.	12.8	58
9	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. ACS Photonics, 2020, 7, 3499-3506.	6.6	29
10	Nonlinear Optical Characterization of 2D Materials. Nanomaterials, 2020, 10, 2263.	4.1	34
11	Directional Assembly of ZnO Nanowires via Three-Dimensional Laser Direct Writing. Nano Letters, 2020, 20, 5159-5166.	9.1	28
12	Two-Step Freezing Polymerization Method for Efficient Synthesis of High-Performance Stimuli-Responsive Hydrogels. ACS Omega, 2020, 5, 5921-5930.	3.5	11
13	Dynamic 3D meta-holography in visible range with large frame number and high frame rate. Science Advances, 2020, 6, eaba8595.	10.3	78
14	Anisotropic Enhancement of Second-Harmonic Generation in Monolayer and Bilayer MoS ₂ by Integrating with TiO ₂ Nanowires. Nano Letters, 2019, 19, 4195-4204.	9.1	56
15	Nanostructured electrically conductive hydrogels obtained <i>via</i> ultrafast laser processing and self-assembly. Nanoscale, 2019, 11, 9176-9184.	5.6	31
16	Precise assembly and joining of silver nanowires in three dimensions for highly conductive composite structures. International Journal of Extreme Manufacturing, 2019, 1, 025001.	12.7	34
17	Polarized second-harmonic generation optical microscopy for laser-directed assembly of ZnO nanowires. Optics Letters, 2019, 44, 4291.	3.3	10
18	Scalable and cost-effective Ag nanowires flexible transparent electrodes. RSC Advances, 2018, 8, 12146-12151.	3.6	11

#	ARTICLE	IF	CITATIONS
19	Laser direct writing of multifunctional micro/nano devices using carbon nanotube-polymer composites. , 2016, , .		0
20	Laser-Directed Assembly of Aligned Carbon Nanotubes in Three Dimensions for Multifunctional Device Fabrication. Advanced Materials, 2016, 28, 2002-2009.	21.0	119
21	Multimodal Nonlinear Optical Imaging of MoS ₂ and MoS ₂ -Based van der Waals Heterostructures. ACS Nano, 2016, 10, 3766-3775.	14.6	127
22	Solid-state graphene formation via a nickel carbide intermediate phase. RSC Advances, 2015, 5, 99037-99043.	3.6	34
23	Laser-based micro/nanofabrication in one, two and three dimensions. Frontiers of Optoelectronics, 2015, 8, 351-378.	3.7	36
24	Two-photon polymerization: investigation of chemical and mechanical properties of resins using Raman microspectroscopy. Optics Letters, 2014, 39, 3034.	3.3	112
25	Direct writing of graphene patterns on insulating substrates under ambient conditions. Scientific Reports, 2014, 4, 4892.	3.3	78
26	Single-Step Formation of Graphene on Dielectric Surfaces. Advanced Materials, 2013, 25, 630-634.	21.0	75
27	High-performance flexible solid-state supercapacitors based on MnO ₂ -decorated nanocarbon electrodes. RSC Advances, 2013, 3, 20613.	3.6	36
28	Transparent, flexible, and solid-state supercapacitors based on graphene electrodes. APL Materials, 2013, 1, .	5.1	89
29	Three-dimensional sub-wavelength fabrication by integration of additive and subtractive femtosecond-laser direct writing. Materials Research Society Symposia Proceedings, 2013, 1499, 1.	0.1	0
30	Strong photoluminescence from diameter-modulated single-walled carbon nanotubes. Applied Physics Letters, 2012, 101, 043123.	3.3	1
31	Simultaneous additive and subtractive three-dimensional nanofabrication using integrated two-photon polymerization and multiphoton ablation. Light: Science and Applications, 2012, 1, e6-e6.	16.6	158
32	Laser-assisted nanofabrication of carbon nanostructures. Journal of Laser Applications, 2012, 24, .	1.7	17
33	Three-dimensional micro/nano-fabrication by integration of additive and subtractive femtosecond-laser direct writing processes. , 2012, , .		1
34	Fast growth of graphene patterns by laser direct writing. Applied Physics Letters, 2011, 98, .	3.3	107
35	Transparent interconnections formed by rapid single-step fabrication of graphene patterns. Applied Physics Letters, 2011, 99, 053103.	3.3	27
36	Growth of diameter-modulated single-walled carbon nanotubes through instant temperature modulation in laser-assisted chemical vapor deposition. Materials Research Society Symposia Proceedings, 2011, 1284, 61.	0.1	0

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37	Laser direct writing of graphene patterns. Materials Research Society Symposia Proceedings, 2011, 1365, 1.	0.1	0
38	Assembly of carbon nanotube devices by tip-induced optical trapping. Materials Research Society Symposia Proceedings, 2011, 1365, 1.	0.1	0
39	What Can Lasers Do in the Nano-Fabrication of Carbon Nanotube Based Devices?. Materials Research Society Symposia Proceedings, 2011, 1365, 1.	0.1	0
40	Laser-induced growth of diameter-modulated single-walled carbon nanotubes. , 2011, , .		0
41	Laser-assisted deposition of good carbon " From diamond films to nanotubes. , 2009, , .		0
42	Self-aligned growth of single-walled carbon nanotubes using optical near-field effects. Nanotechnology, 2009, 20, 025601.	2.6	19
43	Controlled growth of carbon nanotubes on electrodes under different bias polarity. Applied Physics Letters, 2009, 95, 143117.	3.3	12
44	Self-aligned growth of single-walled carbon nanotubes using optical near-field effects. Materials Research Society Symposia Proceedings, 2008, 1142, 103801.	0.1	0
45	3D Printing Nano-Architected Semiconductors Based on Versatile and Customizable Metal-Bound Composite Photoresins. Advanced Materials Technologies, 0, , 2101230.	5.8	8