

Heng Pan

List of Publications by Year in descending order

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52
papers

2,844
citations

236612

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223531

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all docs

53
docs citations

53
times ranked

3687
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol printing and flash sintering of conformal conductors on 3D nonplanar surfaces. <i>Manufacturing Letters</i> , 2022, 31, 119-123.	1.1	5
2	Additive Manufacturing of Sandwich-Structured Conductors for Applications in Flexible and Stretchable Electronics. <i>Advanced Engineering Materials</i> , 2021, 23, 2100286.	1.6	6
3	Submicron Metal 3D Printing by Ultrafast Laser Heating and Induced Ligand Transformation of Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42154-42163.	4.0	5
4	Ultrafast, Non-Equilibrium and Transient Heating and Sintering of Nanocrystals for Nanoscale Metal Printing. <i>Small</i> , 2021, 17, e2103436.	5.2	5
5	Fast Reversible Phase Change Silicon for Visible Active Photonics. <i>Advanced Functional Materials</i> , 2020, 30, 1910784.	7.8	19
6	Aluminum Parts Fabricated by Laser-Foil-Printing Additive Manufacturing: Processing, Microstructure, and Mechanical Properties. <i>Materials</i> , 2020, 13, 414.	1.3	10
7	Customizable Nonplanar Printing of Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2019, 4, 1900645.	3.0	20
8	Feasibility Study of Single-Crystal Si Island Manufacturing by Microscale Printing of Nanoparticles and Laser Crystallization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34416-34423.	4.0	2
9	Strengthening the Electrodes for Li-Ion Batteries with a Porous Adhesive Interlayer through Dry-Spraying Manufacturing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25081-25089.	4.0	14
10	Programming Nanoparticles in Multiscale: Optically Modulated Assembly and Phase Switching of Silicon Nanoparticle Array. <i>ACS Nano</i> , 2018, 12, 2231-2241.	7.3	32
11	Highly Efficient and Stable Perovskite Solar Cells Using a Dopant-Free Inexpensive Small Molecule as the Hole-Transporting Material. <i>Advanced Energy Materials</i> , 2018, 8, 1801248.	10.2	62
12	Materials, Processes, and Facile Manufacturing for Bioresorbable Electronics: A Review. <i>Advanced Materials</i> , 2018, 30, e1707624.	11.1	133
13	Aerosol printing and photonic sintering of bioresorbable zinc nanoparticle ink for transient electronics manufacturing. <i>Science China Information Sciences</i> , 2018, 61, 1.	2.7	25
14	Mechanically Milled Irregular Zinc Nanoparticles for Printable Bioresorbable Electronics. <i>Small</i> , 2017, 13, 1700065.	5.2	50
15	Low-Cost Manufacturing of Bioresorbable Conductors by Evaporation-Condensation-Mediated Laser Printing and Sintering of Zn Nanoparticles. <i>Advanced Materials</i> , 2017, 29, 1700172.	11.1	88
16	Lithium-Ion Batteries: Scalable Dry Printing Manufacturing to Enable Long-Life and High Energy Lithium-Ion Batteries (<i>Adv. Mater. Technol.</i> 10/2017). <i>Advanced Materials Technologies</i> , 2017, 2, .	3.0	0
17	Scalable Dry Printing Manufacturing to Enable Long-Life and High Energy Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2017, 2, 1700106.	3.0	30
18	Understanding Interfacial-Energy-Driven Dry Powder Mixing for Solvent-Free Additive Manufacturing of Li-Ion Battery Electrodes. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700570.	1.9	38

#	ARTICLE	IF	CITATIONS
19	Simulation of Micro/Nanopowder Mixing Characteristics for Dry Spray Additive Manufacturing of Li-Ion Battery Electrodes. <i>Journal of Micro and Nano-Manufacturing</i> , 2017, 5, .	0.8	12
20	Bioresorbable Electronics: Mechanically Milled Irregular Zinc Nanoparticles for Printable Bioresorbable Electronics (Small 17/2017). <i>Small</i> , 2017, 13, .	5.2	1
21	Epidermal wireless sensors on releasable films for biophysical signal measurement on facial areas. , 2017, , .		0
22	Materials, Mechanics, and Patterning Techniques for Elastomer-Based Stretchable Conductors. <i>Micromachines</i> , 2017, 8, 7.	1.4	46
23	Direct Aerosol Printing of Lithium-ion Batteries. <i>International Symposium on Microelectronics</i> , 2017, 2017, 000391-000397.	0.3	1
24	The Coupled Photothermal Reaction and Transport in a Laser Additive Metal Nanolayer Simultaneous Synthesis and Patterning for Flexible Electronics. <i>Nanomaterials</i> , 2016, 6, 12.	1.9	9
25	Direct printing of microstructures by femtosecond laser excitation of nanocrystals in solution. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	5
26	Silicon-wall interfacial free energy via thermodynamics integration. <i>Journal of Chemical Physics</i> , 2016, 145, 184702.	1.2	6
27	Solvent-Free Manufacturing of Electrodes for Lithium-ion Batteries. <i>Scientific Reports</i> , 2016, 6, 23150.	1.6	144
28	Single crystal formation in micro/nano-confined domains by melt-mediated crystallization without seeds. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 225302.	1.3	4
29	Crystallization in nano-confinement seeded by a nanocrystal—A molecular dynamics study. <i>Journal of Applied Physics</i> , 2014, 115, 104307.	1.1	6
30	Large-area nanoimprinting on various substrates by reconfigurable maskless laser direct writing. <i>Nanotechnology</i> , 2012, 23, 344012.	1.3	14
31	Non-vacuum, single-step conductive transparent ZnO patterning by ultra-short pulsed laser annealing of solution-deposited nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 161-171.	1.1	43
32	Fiber laser annealing of indium-tin-oxide nanoparticles for large area transparent conductive layers and optical film characterization. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 29-38.	1.1	33
33	Laser-induced acoustic wave generation/propagation/interaction in water in various internal channels. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 391-400.	1.1	3
34	High-Throughput Near-Field Optical Nanoprocessing of Solution-Deposited Nanoparticles. <i>Small</i> , 2010, 6, 1812-1821.	5.2	66
35	Nanoparticle Selective Laser Processing for a Flexible Display Fabrication. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 05EC03.	0.8	53
36	Large area flexible electronics fabrication by selective laser sintering of nanoparticles with a scanning mirror. , 2009, , .		1

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37	Excimer laser annealing of TiO ₂ nanoparticles for dye sensitized solar cells. , 2009, , .		0
38	Laser annealed composite titanium dioxide electrodes for dye-sensitized solar cells on glass and plastics. Applied Physics Letters, 2009, 94, .	1.5	80
39	Organic Light Emitting Material Direct Writing by Nanomaterial Enabled Laser Transfer. Materials Research Society Symposia Proceedings, 2009, 1179, 44.	0.1	0
40	Melt-mediated coalescence of solution-deposited ZnO nanoparticles by excimer laser annealing for thin-film transistor fabrication. Applied Physics A: Materials Science and Processing, 2009, 94, 111-115.	1.1	79
41	Lithography-free high-resolution organic transistor arrays on a polymer substrate by low energy selective laser ablation of an inkjet-printed nanoparticle film. Applied Physics A: Materials Science and Processing, 2008, 92, 579-587.	1.1	77
42	Laser induced plane acoustic wave generation, propagation, and interaction with rigid structures in water. Journal of Applied Physics, 2008, 104, 073104.	1.1	10
43	The Solid-State Neck Growth Mechanisms in Low Energy Laser Sintering of Gold Nanoparticles: A Molecular Dynamics Simulation Study. Journal of Heat Transfer, 2008, 130, .	1.2	93
44	Thermal sintering of solution-deposited nanoparticle silver ink films characterized by spectroscopic ellipsometry. Applied Physics Letters, 2008, 93, 234104.	1.5	41
45	Nanomaterial enabled laser transfer for organic light emitting material direct writing. Applied Physics Letters, 2008, 93, .	1.5	42
46	ZnO nanowire network transistor fabrication on a polymer substrate by low-temperature, all-inorganic nanoparticle solution process. Applied Physics Letters, 2008, 92, .	1.5	93
47	Excimer laser annealing of ZnO nanoparticles for thin film transistor fabrication. , 2008, , .		0
48	High resolution selective multilayer laser processing by nanosecond laser ablation of metal nanoparticle films. Journal of Applied Physics, 2007, 102, .	1.1	57
49	All-inkjet-printed flexible electronics fabrication on a polymer substrate by low-temperature high-resolution selective laser sintering of metal nanoparticles. Nanotechnology, 2007, 18, 345202.	1.3	646
50	Air stable high resolution organic transistors by selective laser sintering of ink-jet printed metal nanoparticles. Applied Physics Letters, 2007, 90, 141103.	1.5	182
51	Direct Nanoimprinting of Metal Nanoparticles for Nanoscale Electronics Fabrication. Nano Letters, 2007, 7, 1869-1877.	4.5	297
52	Fabrication of multilayer passive and active electric components on polymer using inkjet printing and low temperature laser processing. Sensors and Actuators A: Physical, 2007, 134, 161-168.	2.0	156