

Hyun-Jun Hwang

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

955
citations

471061

17
h-index

580395

25
g-index

25
all docs

25
docs citations

25
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> monitoring of flash-light sintering of copper nanoparticle ink for printed electronics. <i>Nanotechnology</i> , 2012, 23, 485205.	1.3	126
2	Highly conductive copper nano/microparticles ink via flash light sintering for printed electronics. <i>Nanotechnology</i> , 2014, 25, 265601.	1.3	121
3	<i>In situ</i> monitoring of a flash light sintering process using silver nano-ink for producing flexible electronics. <i>Nanotechnology</i> , 2013, 24, 035202.	1.3	98
4	All-photonic drying and sintering process via flash white light combined with deep-UV and near-infrared irradiation for highly conductive copper nano-ink. <i>Scientific Reports</i> , 2016, 6, 19696.	1.6	89
5	Selective Wavelength Plasmonic Flash Light Welding of Silver Nanowires for Transparent Electrodes with High Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24099-24107.	4.0	67
6	Copper Nanoparticle/Multiwalled Carbon Nanotube Composite Films with High Electrical Conductivity and Fatigue Resistance Fabricated via Flash Light Sintering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25413-25423.	4.0	64
7	Photonic welding of ultra-long copper nanowire network for flexible transparent electrodes using white flash light sintering. <i>RSC Advances</i> , 2016, 6, 4770-4779.	1.7	61
8	Flash light sintered copper precursor/nanoparticle pattern with high electrical conductivity and low porosity for printed electronics. <i>Thin Solid Films</i> , 2015, 580, 61-70.	0.8	57
9	Efficiency enhancement in dye-sensitized solar cells using the shape/size-dependent plasmonic nanocomposite photoanodes incorporating silver nanoplates. <i>Nanoscale</i> , 2017, 9, 7960-7969.	2.8	35
10	Effect of copper oxide shell thickness on flash light sintering of copper nanoparticle ink. <i>RSC Advances</i> , 2017, 7, 17724-17731.	1.7	27
11	Shape-Tuned Junction Resistivity and Self-Damping Dynamics in Intense Pulsed Light Sintering of Silver Nanostructure Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3536-3546.	4.0	27
12	Photonic sintering of a ZnO nanosheet photoanode using flash white light combined with deep UV irradiation for dye-sensitized solar cells. <i>RSC Advances</i> , 2017, 7, 6565-6573.	1.7	24
13	Rapid Pulsed Light Sintering of Silver Nanowires on Woven Polyester for personal thermal management with enhanced performance, durability and cost-effectiveness. <i>Scientific Reports</i> , 2018, 8, 17159.	1.6	24
14	Prediction of biceps muscle fatigue and force using electromyography signal analysis for repeated isokinetic dumbbell curl exercise. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 5329-5336.	0.7	19
15	Multi-pulsed flash light sintering of copper nanoparticle pastes on silicon wafer for highly-conductive copper electrodes in crystalline silicon solar cells. <i>Applied Surface Science</i> , 2018, 462, 378-386.	3.1	19
16	Ultra-High Speed Fabrication of TiO ₂ Photoanode by Flash Light for Dye-Sensitized Solar Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5028-5034.	0.9	18
17	Ultra-High-Speed Intense Pulsed-Light Irradiation Technique for High-Performance Zinc Oxynitride Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4152-4158.	4.0	18
18	Tuning electronic and photocatalytic properties in pulsed light synthesis of Cu ₂ ZnSnS ₄ films from CuS-ZnS-SnS nanoparticles. <i>Materials Research Bulletin</i> , 2020, 122, 110645.	2.7	15

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19	Towards out-of-chamber damage-free fabrication of highly conductive nanoparticle-based circuits inside 3D printed thermally sensitive polymers. Additive Manufacturing, 2019, 30, 100886.	1.7	13
20	Understanding the role of Nanomorphology on Resistance Evolution in the Hybrid Form-Fuse Process for Conformal Electronics. Journal of Manufacturing Processes, 2020, 58, 1088-1102.	2.8	12
21	Rapid surface kinetics enhancement via flash light sintering for low-temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2019, 778, 337-344.	2.8	7
22	TiO ₂ /silver/carbon nanotube nanocomposite working electrodes for high-performance dye-sensitized solar cells. Journal of Composite Materials, 2014, 48, 1679-1690.	1.2	6
23	Inkjet Printing and In-Situ Crystallization of Biopigments for Eco-Friendly and Energy-Efficient Fabric Coloration. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 941-953.	2.7	4
24	Photonic sintering via flash white light combined with deep UV and NIR for SrTiO ₃ thin film vibration touch panel applications. Nanotechnology, 2016, 27, 505209.	1.3	3
25	In vivo stiffness measurement and in silico stiffness prediction of biceps brachii muscle using an isometric contraction exercise. Journal of Mechanical Science and Technology, 2016, 30, 2881-2889.	0.7	1