

Rajiv Malhotra

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

329
citations

686830

13
h-index

839053

18
g-index

22
all docs

22
docs citations

22
times ranked

342
citing authors

#	ARTICLE	IF	CITATIONS
1	On the self-damping nature of densification in photonic sintering of nanoparticles. Scientific Reports, 2015, 5, 14845.	1.6	40
2	Temperature, Crystalline Phase and Influence of Substrate Properties in Intense Pulsed Light Sintering of Copper Sulfide Nanoparticle Thin Films. Scientific Reports, 2018, 8, 2201.	1.6	29
3	Nanoscale-shape-mediated coupling between temperature and densification in intense pulsed light sintering. Nanotechnology, 2016, 27, 495602.	1.3	27
4	Shape-Tuned Junction Resistivity and Self-Damping Dynamics in Intense Pulsed Light Sintering of Silver Nanostructure Films. ACS Applied Materials & Interfaces, 2019, 11, 3536-3546.	4.0	27
5	Modeling nanoscale temperature gradients and conductivity evolution in pulsed light sintering of silver nanowire networks. Nanotechnology, 2018, 29, 505205.	1.3	25
6	Rapid Pulsed Light Sintering of Silver Nanowires on Woven Polyester for personal thermal management with enhanced performance, durability and cost-effectiveness. Scientific Reports, 2018, 8, 17159.	1.6	24
7	Controlling processing temperatures and self-limiting behaviour in intense pulsed sintering by tailoring nanomaterial shape distribution. RSC Advances, 2017, 7, 56395-56405.	1.7	21
8	Scalably synthesized environmentally benign, aqueous-based binary nanoparticle inks for $\text{Cu}_2\text{ZnSn(S,Se)}_4$ photovoltaic cells achieving over 9% efficiency. Sustainable Energy and Fuels, 2017, 1, 267-274.	2.5	19
9	Scalable Forming and Flash Light Sintering of Polymer-Supported Interconnects for Surface-Conformal Electronics. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	19
10	Tuning electronic and photocatalytic properties in pulsed light synthesis of $\text{Cu}_2\text{ZnSnS}_4$ films from CuS-ZnS-SnS nanoparticles. Materials Research Bulletin, 2020, 122, 110645.	2.7	15
11	Inkjet Printing of Perovskites for Breaking Performanceâ€“Temperature Tradeoffs in Fabricâ€“Based Thermistors. Advanced Functional Materials, 2021, 31, .	7.8	15
12	Feasibility and Surface Evaluation of the Pigment from Scytalidium cuboideum for Inkjet Printing on Textiles. Coatings, 2019, 9, 266.	1.2	14
13	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
14	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
15	Intense Pulsed Light unprinting for reducing life-cycle stages in recycling of coated printing paper. Journal of Cleaner Production, 2019, 232, 274-284.	4.6	6
16	On Self-Limiting Rotation and Diffusion Mechanisms during Sintering of Silver Nanowires. Journal of Physical Chemistry C, 2020, 124, 19849-19857.	1.5	6
17	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
18	Scalable, flexible and resilient parallelization of fused filament fabrication: Breaking endemic tradeoffs in material extrusion additive manufacturing. Additive Manufacturing, 2022, 56, 102926.	1.7	4

#	ARTICLE	IF	CITATIONS
19	Nanoparticle circuits inside elastomers for flexible electronics: High conductivity under cyclic deformation. <i>Manufacturing Letters</i> , 2020, 26, 37-41.	1.1	3
20	Fusion of Stacked Nanowires: From Atomistic to Analytical Models. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100104.	1.3	3
21	Multiscale Modeling of Sintering-Driven Conductivity in Large Nanowire Ensembles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56645-56654.	4.0	3
22	Effect of Nanomaterial Shape on Fabrication of Conformal Circuits. <i>Procedia Manufacturing</i> , 2020, 48, 251-255.	1.9	0