

Rajiv Malhotra

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

329
citations

686830

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839053

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22
times ranked

342
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Inkjet Printing of Perovskites for Breaking Performanceâ€“Temperature Tradeoffs in Fabricâ€“Based Thermistors. Advanced Functional Materials, 2021, 31, .	7.8	15
4	Fusion of Stacked Nanowires: From Atomistic to Analytical Models. Advanced Theory and Simulations, 2021, 4, 2100104.	1.3	3
5	Multiscale Modeling of Sintering-Driven Conductivity in Large Nanowire Ensembles. ACS Applied Materials & Interfaces, 2021, 13, 56645-56654.	4.0	3
6	Tuning electronic and photocatalytic properties in pulsed light synthesis of Cu ₂ ZnSnS ₄ films from CuS-ZnS-SnS nanoparticles. Materials Research Bulletin, 2020, 122, 110645.	2.7	15
7	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
8	On Self-Limiting Rotation and Diffusion Mechanisms during Sintering of Silver Nanowires. Journal of Physical Chemistry C, 2020, 124, 19849-19857.	1.5	6
9	Nanoparticle circuits inside elastomers for flexible electronics: High conductivity under cyclic deformation. Manufacturing Letters, 2020, 26, 37-41.	1.1	3
10	Effect of Nanomaterial Shape on Fabrication of Conformal Circuits. Procedia Manufacturing, 2020, 48, 251-255.	1.9	0
11	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
12	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
13	Feasibility and Surface Evaluation of the Pigment from Scytalidium cuboideum for Inkjet Printing on Textiles. Coatings, 2019, 9, 266.	1.2	14
14	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
15	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
16	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
17	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
18	Modeling nanoscale temperature gradients and conductivity evolution in pulsed light sintering of silver nanowire networks. Nanotechnology, 2018, 29, 505205.	1.3	25

#	ARTICLE	IF	CITATIONS
19	Scalably synthesized environmentally benign, aqueous-based binary nanoparticle inks for Cu ₂ ZnSn(S,Se) ₄ photovoltaic cells achieving over 9% efficiency. Sustainable Energy and Fuels, 2017, 1, 267-274.	2.5	19
20	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
21	Nanoscale-shape-mediated coupling between temperature and densification in intense pulsed light sintering. Nanotechnology, 2016, 27, 495602.	1.3	27
22	On the self-damping nature of densification in photonic sintering of nanoparticles. Scientific Reports, 2015, 5, 14845.	1.6	40