

Arshad Khan

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,351
citations

361413

20
h-index

361022

35
g-index

52
all docs

52
docs citations

52
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Flexible Transparent Electrode with an Embedded Metal Mesh Fabricated by Cost-Effective Solution Process. <i>Small</i> , 2016, 12, 3021-3030.	10.0	178
2	Unsteady MHD free convection flow of Casson fluid past over an oscillating vertical plate embedded in a porous medium. <i>Engineering Science and Technology, an International Journal</i> , 2015, 18, 309-317.	3.2	135
3	Direct printing of copper conductive micro-tracks by multi-nozzle electrohydrodynamic inkjet printing process. <i>Journal of Materials Processing Technology</i> , 2012, 212, 700-706.	6.3	89
4	Multi-nozzle electrohydrodynamic inkjet printing of silver colloidal solution for the fabrication of electrically functional microstructures. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 1113-1120.	2.3	72
5	Direct patterning and electrospray deposition through EHD for fabrication of printed thin film transistors. <i>Current Applied Physics</i> , 2011, 11, S271-S279.	2.4	71
6	Stretchable Transparent Electrodes with Solution-Processed Regular Metal Mesh for an Electroluminescent Light-Emitting Film. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21009-21017.	8.0	53
7	Selective Electroless Metallization of Micro- and Nanopatterns via Poly(dopamine) Modification and Palladium Nanoparticle Catalysis for Flexible and Stretchable Electronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28754-28763.	8.0	48
8	Solution-Processed Transparent Nickel-Mesh Counter Electrode with in-Situ Electrodeposited Platinum Nanoparticles for Full-Plastic Bifacial Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8083-8091.	8.0	45
9	Waste to energy: Facile, low-cost and environment-friendly triboelectric nanogenerators using recycled plastic and electronic wastes for self-powered portable electronics. <i>Energy Reports</i> , 2022, 8, 1687-1695.	5.1	42
10	Fine-resolution patterning of copper nanoparticles through electrohydrodynamic jet printing. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 065012.	2.6	40
11	Soft Inkjet Circuits. , 2019, , .		40
12	Drop-on-Demand Direct Printing of Colloidal Copper Nanoparticles by Electrohydrodynamic Atomization. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1196-1201.	4.7	38
13	Study of drop-on-demand printing through multi-step pulse voltage. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 663-669.	2.2	36
14	PhysioSkin: Rapid Fabrication of Skin-Conformal Physiological Interfaces. , 2020, , .		36
15	Highly transparent and flexible polyaniline mesh sensor for chemiresistive sensing of ammonia gas. <i>RSC Advances</i> , 2018, 8, 5312-5320.	3.6	31
16	Template-Electrodeposited and Imprint-Transferred Microscale Metal-Mesh Transparent Electrodes for Flexible and Stretchable Electronics. <i>Advanced Engineering Materials</i> , 2019, 21, 1900723.	3.5	31
17	Effects of nozzles array configuration on cross-talk in multi-nozzle electrohydrodynamic inkjet printing head. <i>Journal of Electrostatics</i> , 2011, 69, 380-387.	1.9	29
18	MHD Flow of Micropolar Fluid over an Oscillating Vertical Plate Embedded in Porous Media with Constant Temperature and Concentration. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-20.	1.1	24

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19	A low-cost printed organic thermoelectric generator for low-temperature energy harvesting. <i>Renewable Energy</i> , 2021, 167, 853-860.	8.9	23
20	Effects of Wall Shear Stress on MHD Conjugate Flow over an Inclined Plate in a Porous Medium with Ramped Wall Temperature. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-15.	1.1	22
21	Scalable Fabrication of Metallic Nanofiber Network via Templated Electrodeposition for Flexible Electronics. <i>Advanced Functional Materials</i> , 2019, 29, 1903123.	14.9	21
22	Effects of Wall Shear Stress on Unsteady MHD Conjugate Flow in a Porous Medium with Ramped Wall Temperature. <i>PLoS ONE</i> , 2014, 9, e90280.	2.5	21
23	Developing Conductive Fabric Threads for Human Respiratory Rate Monitoring. <i>IEEE Sensors Journal</i> , 2021, 21, 4350-4356.	4.7	20
24	Fabrication of circuits by multi-nozzle electrohydrodynamic inkjet printing for soft wearable electronics. <i>Journal of Materials Research</i> , 2021, 36, 3568-3578.	2.6	20
25	Electrode configuration effects on the electrification and voltage variation in an electrostatic inkjet printing head. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 075033.	2.6	17
26	Influence of Slip Condition on Unsteady Free Convection Flow of Viscous Fluid with Ramped Wall Temperature. <i>Abstract and Applied Analysis</i> , 2015, 2015, 1-7.	0.7	16
27	Irreversibility analysis in unsteady flow over a vertical plate with arbitrary wall shear stress and ramped wall temperature. <i>Results in Physics</i> , 2018, 8, 1283-1290.	4.1	15
28	Highly-facile template-based selective electroless metallization of micro- and nanopatterns for plastic electronics and plasmonics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4363-4373.	5.5	14
29	Computational design and optimization of electro-physiological sensors. <i>Nature Communications</i> , 2021, 12, 6351.	12.8	14
30	Nanostructure transfer using cyclic olefin copolymer templates fabricated by thermal nanoimprint lithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	1.2	13
31	Cross-talk effect in electrostatic based capillary array nozzles. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 3053-3062.	1.5	12
32	Direct Fabrication of Copper Nanoparticle Patterns through Electrohydrodynamic Printing in Cone-Jet Mode. <i>Materials and Manufacturing Processes</i> , 2012, 27, 1295-1299.	4.7	12
33	A low-cost printed humidity sensor on cellulose substrate by EHD printing. <i>Journal of Materials Research</i> , 2021, 36, 3667-3678.	2.6	12
34	Printing Sensors on Biocompatible Substrates for Selective Detection of Glucose. <i>IEEE Sensors Journal</i> , 2021, 21, 4167-4175.	4.7	11
35	Memristor Fabrication Through Printing Technologies: A Review. <i>IEEE Access</i> , 2021, 9, 95970-95985.	4.2	10
36	Conjugate transfer of heat and mass in unsteady flow of a micropolar fluid with wall couple stress. <i>AIP Advances</i> , 2015, 5, .	1.3	9

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37	Development of Electrostatic Inkjet Head by Integrating Metallic and Silica Capillaries for Stable Meniscus. <i>Materials and Manufacturing Processes</i> , 2012, 27, 1239-1244.	4.7	6
38	Rapid Fabrication of Soft Strain Sensors by Multi-Nozzle Electrohydrodynamic Inkjet Printing for Wearable Electronics. , 2021, , .		5
39	Developing pressure sensors from impregnated textile sandwiched in inkjet-printed electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 541-553.	2.2	5
40	A Weldless Approach for Thermocouple Fabrication Through Direct Ink Writing Technique. <i>IEEE Sensors Journal</i> , 2021, 21, 1279-1286.	4.7	4
41	Scalable Solution-processed Fabrication Strategy for High-performance, Flexible, Transparent Electrodes with Embedded Metal Mesh. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
42	Exact Solutions of Heat and Mass Transfer with MHD Flow in a Porous Medium under Time Dependent Shear Stress and Temperature. <i>Abstract and Applied Analysis</i> , 2015, 2015, 1-16.	0.7	2
43	Novel Embedded Metal-mesh Transparent Electrodes. <i>Springer Theses</i> , 2020, , .	0.1	2
44	Conformal Wearable Devices for Expressive On-Skin Interaction. , 2020, , .		2
45	Substrate Treatment Evaluation and Their Impact on Printing Results for Wearable Electronics. <i>Frontiers in Electronics</i> , 2021, 2, .	3.2	1
46	Recycled Plastic Waste-based Triboelectric Nanogenerator Reinforcing Circular Economy. , 2022, , .		1
47	Effects of process parameters on cross-talk in triangular array multi-nozzle EHD printing head. , 2010, , .		0
48	Solution-processed metallic micro- and nanostructures for transparent electrodes and plasmonic sensors. , 2017, , .		0
49	49.2: Invited Paper: Solution-processed Metallic Micro-and Nanostructures for Transparent Electrodes in Flexible Display and Sensing Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 554-555.	0.3	0
50	Sensors on Nonconventional Substrates Developed through Printing Technologies. , 2021, , .		0
51	Developing a Printed Respiration Rate Sensor for E-textile Applications. , 2021, , .		0
52	Vacuum-Free Fabrication of Transparent Electrodes for Soft Electronics. , 0, , .		0