

Kyung-Hyun Choi

List of Publications by Year in descending order

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243
papers

5,593
citations

94269

37
h-index

138251

58
g-index

246
all docs

246
docs citations

246
times ranked

5602
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printing for soft robotics – a review. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 243-262.	2.8	284
2	Fabrication of 3D biocompatible/biodegradable micro-scaffolds using dynamic mask projection microstereolithography. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5494-5503.	3.1	174
3	Resistive Switching in All-Printed, Flexible and Hybrid MoS ₂ -PVA Nanocomposite based Memristive Device Fabricated by Reverse Offset. <i>Scientific Reports</i> , 2016, 6, 36195.	1.6	122
4	Optimization of Experimental Parameters To Determine the Jetting Regimes in Electrohydrodynamic Printing. <i>Langmuir</i> , 2013, 29, 13630-13639.	1.6	115
5	A two-dimensional hexagonal boron nitride/polymer nanocomposite for flexible resistive switching devices. <i>Journal of Materials Chemistry C</i> , 2017, 5, 862-871.	2.7	105
6	Fabrication of TiO ₂ thin film memristor device using electrohydrodynamic inkjet printing. <i>Thin Solid Films</i> , 2012, 520, 5070-5074.	0.8	97
7	Determination of fabricating orientation and packing in SLS process. <i>Journal of Materials Processing Technology</i> , 2001, 112, 236-243.	3.1	94
8	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.	3.1	89
9	Investigation on structural and electrochemical properties of binder free nanostructured nickel oxide thin film. <i>Materials Letters</i> , 2015, 161, 694-697.	1.3	82
10	Micropatterning of metal oxide nanofibers by electrohydrodynamic (EHD) printing towards highly integrated and multiplexed gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 574-583.	4.0	74
11	A lung cancer-on-chip platform with integrated biosensors for physiological monitoring and toxicity assessment. <i>Biochemical Engineering Journal</i> , 2020, 155, 107469.	1.8	73
12	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.	1.1	72
13	Direct patterning and electrospray deposition through EHD for fabrication of printed thin film transistors. <i>Current Applied Physics</i> , 2011, 11, S271-S279.	1.1	71
14	Wide range high speed relative humidity sensor based on PEDOT:PSS/PVA composite on an IDT printed on piezoelectric substrate. <i>Sensors and Actuators A: Physical</i> , 2015, 228, 40-49.	2.0	70
15	Wide range highly sensitive relative humidity sensor based on series combination of MoS ₂ and PEDOT:PSS sensors array. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 354-363.	4.0	70
16	Experimental and numerical analysis of Y-shaped split and recombination micro-mixer with different mixing units. <i>Chemical Engineering Journal</i> , 2019, 358, 691-706.	6.6	65
17	A PC-based open robot control system: PC-ORC. <i>Robotics and Computer-Integrated Manufacturing</i> , 2001, 17, 355-365.	6.1	64
18	Enhanced resistive switching in all-printed, hybrid and flexible memory device based on perovskite ZnSnO ₃ via PVOH polymer. <i>Polymer</i> , 2016, 100, 102-110.	1.8	61

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19	Fabrication of blue luminescent MoS ₂ quantum dots by wet grinding assisted co-solvent sonication. <i>Journal of Luminescence</i> , 2016, 169, 342-347.	1.5	59
20	A highly sensitive biodegradable pressure sensor based on nanofibrous dielectric. <i>Sensors and Actuators A: Physical</i> , 2019, 294, 140-147.	2.0	57
21	CIS layer deposition through electrospray process for solar cell fabrication. <i>Current Applied Physics</i> , 2011, 11, S68-S75.	1.1	55
22	Fully 3D Printed Multi-Material Soft Bio-Inspired Whisker Sensor for Underwater-Induced Vortex Detection. <i>Soft Robotics</i> , 2018, 5, 122-132.	4.6	55
23	Fabrication of printed memory device having zinc-oxide active nano-layer and investigation of resistive switching. <i>Current Applied Physics</i> , 2013, 13, 90-96.	1.1	50
24	ZrO ₂ flexible printed resistive (memristive) switch through electrohydrodynamic printing process. <i>Thin Solid Films</i> , 2013, 536, 308-312.	0.8	49
25	A High-Energy Aqueous Sodium-Ion Capacitor with Nickel Hexacyanoferrate and Graphene Electrodes. <i>ChemElectroChem</i> , 2017, 4, 3302-3308.	1.7	49
26	Fabrication of ZrO ₂ layer through electrohydrodynamic atomization for the printed resistive switch (memristor). <i>Microelectronic Engineering</i> , 2013, 103, 167-172.	1.1	47
27	Effect of device structure on the resistive switching characteristics of organic polymers fabricated through all printed technology. <i>Current Applied Physics</i> , 2017, 17, 533-540.	1.1	47
28	Quantitative detection of uric acid through ZnO quantum dots based highly sensitive electrochemical biosensor. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 282-290.	2.0	46
29	Fabrication of high quality zinc-oxide layers through electrohydrodynamic atomization. <i>Thin Solid Films</i> , 2012, 520, 1751-1756.	0.8	43
30	Direct synthesis of graphene quantum dots from multilayer graphene flakes through grinding assisted co-solvent ultrasonication for all-printed resistive switching arrays. <i>RSC Advances</i> , 2016, 6, 5068-5078.	1.7	43
31	All-range flexible and biocompatible humidity sensor based on poly lactic glycolic acid (PLGA) and its application in human breathing for wearable health monitoring. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9455-9465.	1.1	43
32	Cost-effective fabrication of memristive devices with ZnO thin film using printed electronics technologies. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 165-170.	1.1	42
33	All-printed and highly stable organic resistive switching device based on graphene quantum dots and polyvinylpyrrolidone composite. <i>Organic Electronics</i> , 2015, 25, 225-231.	1.4	42
34	<i>In situ</i> UV curable 3D printing of multi-material tri-legged soft bot with spider mimicked multi-step forward dynamic gait. <i>Smart Materials and Structures</i> , 2016, 25, 115009.	1.8	42
35	Liquid-assisted exfoliation of 2D hBN flakes and their dispersion in PEO to fabricate highly specific and stable linear humidity sensors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1421-1432.	2.7	42
36	Fine-resolution patterning of copper nanoparticles through electrohydrodynamic jet printing. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 065012.	1.5	40

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37	Real-time sensors for live monitoring of disease and drug analysis in microfluidic model of proximal tubule. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	40
38	Fabrication of ZnSnO ₃ based humidity sensor onto arbitrary substrates by micro-Nano scale transfer printing. <i>Sensors and Actuators A: Physical</i> , 2016, 246, 1-8.	2.0	39
39	Fully 3D printed multi-material soft bio-inspired frog for underwater synchronous swimming. <i>International Journal of Mechanical Sciences</i> , 2021, 210, 106725.	3.6	39
40	Drop-on-Demand Direct Printing of Colloidal Copper Nanoparticles by Electrohydrodynamic Atomization. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1196-1201.	2.7	38
41	Synthesis and evaluation of the cytotoxic and anti-proliferative properties of ZnO quantum dots against MCF-7 and MDA-MB-231 human breast cancer cells. <i>Materials Science and Engineering C</i> , 2017, 81, 551-560.	3.8	38
42	A fluorescent lateral flow biosensor for the quantitative detection of Vaspin using upconverting nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 226, 117610.	2.0	38
43	Excimer laser micromachining for 3D microstructure. <i>Journal of Materials Processing Technology</i> , 2004, 149, 561-566.	3.1	37
44	High rate roll-to-roll atmospheric atomic layer deposition of Al ₂ O ₃ thin films towards gas diffusion barriers on polymers. <i>Materials Letters</i> , 2014, 136, 90-94.	1.3	37
45	Humidity Sensor Based on PEDOT:PSS and Zinc Stannate Nano-composite. <i>Journal of Electronic Materials</i> , 2015, 44, 3992-3999.	1.0	37
46	Paper-based selective and quantitative detection of uric acid using citrate-capped Pt nanoparticles (PtNPs) as a colorimetric sensing probe through a simple and remote-based device. <i>New Journal of Chemistry</i> , 2019, 43, 7636-7645.	1.4	37
47	Study of drop-on-demand printing through multi-step pulse voltage. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 663-669.	1.1	36
48	Characterization of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) thin film deposited through electrohydrodynamic atomization technique. <i>Materials Letters</i> , 2012, 83, 80-83.	1.3	36
49	Design of microstereolithography system based on dynamic image projection for fabrication of three-dimensional microstructures. <i>Journal of Mechanical Science and Technology</i> , 2006, 20, 2094-2104.	0.7	35
50	Fabrication of CdSe/ZnS quantum dots thin film by electrohydrodynamics atomization technique for solution based flexible hybrid OLED application. <i>Chemical Engineering Journal</i> , 2014, 253, 325-331.	6.6	35
51	Highly sensitive BEHP-co-MEH:PPV + Poly(acrylic acid) partial sodium salt based relative humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 809-818.	4.0	35
52	Resistive switching phenomena induced by the heterostructure composite of ZnSnO ₃ nanocubes interspersed ZnO nanowires. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5528-5537.	2.7	35
53	Highly flexible and electroforming free resistive switching behavior of tungsten disulfide flakes fabricated through advanced printing technology. <i>Semiconductor Science and Technology</i> , 2017, 32, 095001.	1.0	35
54	Highly stable soft strain sensor based on Gly-KCl filled sinusoidal fluidic channel for wearable and water-proof robotic applications. <i>Smart Materials and Structures</i> , 2020, 29, 025011.	1.8	35

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55	Real-time monitoring of liver fibrosis through embedded sensors in a microphysiological system. Nano Convergence, 2021, 8, 3.	6.3	35
56	Low-Temperature Roll-to-Roll Atmospheric Atomic Layer Deposition of Al ₂ O ₃ Thin Films. Langmuir, 2014, 30, 14195-14203.	1.6	34
57	Linear humidity sensor fabrication using bi-layered active region of transition metal carbide and polymer thin films. Sensors and Actuators B: Chemical, 2017, 252, 725-734.	4.0	34
58	Microphysiological system with continuous analysis of albumin for hepatotoxicity modeling and drug screening. Journal of Industrial and Engineering Chemistry, 2021, 98, 318-326.	2.9	34
59	Decade of bio-inspired soft robots: a review. Smart Materials and Structures, 2022, 31, 073002.	1.8	34
60	Fine resolution drop-on-demand electrohydrodynamic patterning of conductive silver tracks on glass substrate. Applied Physics A: Materials Science and Processing, 2013, 111, 593-600.	1.1	33
61	Resistive switching effect in the planar structure of all-printed, flexible and rewritable memory device based on advanced 2D nanocomposite of graphene quantum dots and white graphene flakes. Journal Physics D: Applied Physics, 2017, 50, 335104.	1.3	33
62	Two-Dimensional Transition Metal Carbides and Nitrides (MXenes) for Water Purification and Antibacterial Applications. Membranes, 2021, 11, 869.	1.4	33
63	All-printed highly sensitive 2D MoS ₂ based multi-reagent immunosensor for smartphone based point-of-care diagnosis. Scientific Reports, 2017, 7, 5802.	1.6	31
64	A comprehensive review of artificial intelligence and network based approaches to drug repurposing in Covid-19. Biomedicine and Pharmacotherapy, 2022, 153, 113350.	2.5	31
65	Back-Stepping Controller Based Web Tension Control for Roll-to-Roll Web Printed Electronics System. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2011, 5, 7-21.	0.3	30
66	Control of Roll-to-Roll Web Systems via Differential Flatness and Dynamic Feedback Linearization. IEEE Transactions on Control Systems Technology, 2013, 21, 1309-1317.	3.2	30
67	Hybrid Surface Acoustic Wave- Electrohydrodynamic Atomization (SAW-EHDA) For the Development of Functional Thin Films. Scientific Reports, 2015, 5, 15178.	1.6	30
68	Synthesis of ZnSnO ₃ nanocubes and thin film fabrication of (ZnSnO ₃ /PMMA) composite through electrospray deposition. Journal of Materials Science: Materials in Electronics, 2015, 26, 5690-5696.	1.1	30
69	Effects of nozzles array configuration on cross-talk in multi-nozzle electrohydrodynamic inkjet printing head. Journal of Electrostatics, 2011, 69, 380-387.	1.0	29
70	Bio-compatible organic humidity sensor transferred to arbitrary surfaces fabricated using single-cell-thick onion membrane as both the substrate and sensing layer. Scientific Reports, 2016, 6, 30065.	1.6	29
71	Linear bi-layer humidity sensor with tunable response using combinations of molybdenum carbide with polymers. Sensors and Actuators A: Physical, 2017, 262, 68-77.	2.0	29
72	Characterization of flexible temperature sensor fabricated through drop-on-demand electrohydrodynamics patterning. Japanese Journal of Applied Physics, 2014, 53, 05HB02.	0.8	28

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73	Improvement of solution based conjugate polymer organic light emitting diode by ZnO-graphene quantum dots. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3344-3351.	1.1	28
74	Organic non-volatile memory cell based on resistive elements through electro-hydrodynamic technique. <i>Organic Electronics</i> , 2015, 17, 121-128.	1.4	28
75	Fabrication of zinc stannate based all-printed resistive switching device. <i>Materials Letters</i> , 2016, 166, 311-316.	1.3	28
76	Highly sensitive wide range linear integrated temperature compensated humidity sensors fabricated using Electrohydrodynamic printing and electrospray deposition. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127680.	4.0	28
77	Resistive switching device based on SrTiO ₃ /PVA hybrid composite thin film as active layer. <i>Polymer</i> , 2020, 189, 122183.	1.8	28
78	Real-time physiological sensor-based liver-on-chip device for monitoring drug toxicity. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 115013.	1.5	28
79	Deposition and characterization of silver nanowires embedded PEDOT:PSS thin films via electrohydrodynamic atomization. <i>Chemical Engineering Journal</i> , 2013, 225, 887-894.	6.6	27
80	Drop-on-Demand Electrohydrodynamic Printing of High Resolution Conductive Micro Patterns for MEMS Repairing. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 811-819.	1.1	27
81	Electrospray deposition of a graphene-oxide thin film, its characterization and investigation of its resistive switching performance. <i>Journal of the Korean Physical Society</i> , 2012, 61, 470-475.	0.3	25
82	Omni Directional Multimaterial Soft Cylindrical Actuator and Its Application as a Steerable Catheter. <i>Soft Robotics</i> , 2017, 4, 224-240.	4.6	25
83	Evaluation and live monitoring of pH-responsive HSA-ZnO nanoparticles using a lung-on-a-chip model. <i>Archives of Pharmacal Research</i> , 2020, 43, 503-513.	2.7	25
84	Multi-agent-based task assignment system for virtual enterprises. <i>Robotics and Computer-Integrated Manufacturing</i> , 2007, 23, 624-629.	6.1	24
85	Roll-to-Roll Atmospheric Atomic Layer Deposition of Al ₂ O ₃ Thin Films on PET Substrates. <i>Chemical Vapor Deposition</i> , 2014, 20, 380-387.	1.4	24
86	Thermally modified amorphous polyethylene oxide thin films as highly sensitive linear humidity sensors. <i>Sensors and Actuators A: Physical</i> , 2017, 265, 102-110.	2.0	24
87	A highly efficient surface modified separator fabricated with atmospheric atomic layer deposition for high temperature lithium ion batteries. <i>International Journal of Energy Research</i> , 2020, 44, 7035-7046.	2.2	24
88	Multi-agent hybrid shop floor control system. <i>International Journal of Production Research</i> , 2000, 38, 4193-4203.	4.9	23
89	Structural and optical properties of electrohydrodynamically atomized TiO ₂ nanostructured thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 715-722.	1.1	23
90	Resistive switching and current conduction mechanism in full organic resistive switch with the sandwiched structure of poly(3,4-ethylenedioxythiophene): poly(styrenesulfonate)/poly(4-vinylphenol)/poly(3,4-ethylenedioxythiophene): poly(styrenesulfonate). <i>Electronic Materials Letters</i> , 2014, 10, 601-606.	1.0	23

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91	pH-sensitive tangeretin-ZnO quantum dots exert apoptotic and anti-metastatic effects in metastatic lung cancer cell line. <i>Materials Science and Engineering C</i> , 2018, 92, 477-488.	3.8	23
92	Extracellular Matrix Optimization for Enhanced Physiological Relevance in Hepatic Tissue-Chips. <i>Polymers</i> , 2021, 13, 3016.	2.0	23
93	Multi-material Bio-inspired Soft Octopus Robot for Underwater Synchronous Swimming. <i>Journal of Bionic Engineering</i> , 2022, 19, 1229-1241.	2.7	23
94	Simulation of droplet generation through electrostatic forces. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 307-310.	0.7	22
95	Electrohydrodynamic Spray Deposition of ZnO Nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 05EC08.	0.8	22
96	Structural and electrical properties of P3HT:PCBM/PEDOT:PSS thin films deposited through electrohydrodynamic atomization technique. <i>Materials Letters</i> , 2013, 92, 227-230.	1.3	22
97	Effect of adding a polymer and varying device size on the resistive switching characteristics of perovskite nanocubes heterojunction. <i>Current Applied Physics</i> , 2017, 17, 1733-1741.	1.1	22
98	Development of 3D-Printed Embedded Temperature Sensor for Both Terrestrial and Aquatic Environmental Monitoring Robots. <i>3D Printing and Additive Manufacturing</i> , 2018, 5, 160-169.	1.4	22
99	Randomly oriented graphene flakes film fabrication from graphite dispersed in N-methyl-pyrrolidone by using electrohydrodynamic atomization technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 4893-4900.	1.1	21
100	Rapid fabrication of Al ₂ O ₃ encapsulations for organic electronic devices. <i>Applied Surface Science</i> , 2015, 353, 1186-1194.	3.1	21
101	Screen printed silver top electrode for efficient inverted organic solar cells. <i>Materials Research Bulletin</i> , 2015, 70, 412-415.	2.7	20
102	Printing an ITO-free flexible poly (4-vinylphenol) resistive switching device. <i>Physica B: Condensed Matter</i> , 2018, 531, 223-229.	1.3	20
103	Impact of serum concentration in cell culture media on tight junction proteins within a multiorgan microphysiological system. <i>Microelectronic Engineering</i> , 2020, 232, 111405.	1.1	20
104	Fuzzy decoupling to reduce propagation of tension disturbances in roll-to-roll system. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 153-163.	1.5	19
105	A backstepping-based control algorithm for multi-span roll-to-roll web system. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 45-61.	1.5	19
106	Highly stable flex sensors fabricated through mass production roll-to-roll micro-gravure printing system. <i>Sensors and Actuators A: Physical</i> , 2015, 236, 73-81.	2.0	19
107	Highly Sensitive Flexible Human Motion Sensor Based on ZnSnO ₃ /PVDF Composite. <i>Journal of Electronic Materials</i> , 2017, 46, 4172-4179.	1.0	19
108	Encapsulation of polyvinyl alcohol based flexible temperature sensor through spatial atmospheric atomic layer deposition system to enhance its lifetime. <i>Thin Solid Films</i> , 2019, 673, 44-51.	0.8	19

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109	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.	1.5	17
110	Web Tension and Velocity Control of Two-Span Roll-to-Roll System for Printed Electronics. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2011, 5, 329-346.	0.3	17
111	Fabrication of graphene-nanoflake/poly(4-vinylphenol) polymer nanocomposite thin film by electrohydrodynamic atomization and its application as flexible resistive switching device. <i>Physica B: Condensed Matter</i> , 2015, 475, 148-155.	1.3	17
112	2D nanocomposite of hexagonal boron nitride nanoflakes and molybdenum disulfide quantum dots applied as the functional layer of all-printed flexible memory device. <i>Materials Research Bulletin</i> , 2018, 105, 28-35.	2.7	17
113	Optimal parametric mixing analysis of active and passive micromixers using Taguchi method. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2019, 233, 1292-1303.	1.4	17
114	Evaluation of Antimicrobial and Anticancer Activities of Selected Medicinal Plants of Himalayas, Pakistan. <i>Plants</i> , 2022, 11, 48.	1.6	17
115	Fabrication of dielectric poly (4-vinylphenol) thin films by using the electrohydrodynamic atomization technique. <i>Journal of the Korean Physical Society</i> , 2013, 62, 269-274.	0.3	16
116	Direct fabrication of graphene/zinc oxide composite film and its characterizations. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 323-330.	1.1	16
117	Flexible and passive photo sensor based on perylene/graphene composite. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 634-640.	4.0	16
118	Phytochemical Investigation, Antimicrobial, Antioxidant and Anticancer Activities of <i>Acer cappadocicum</i> Gled. <i>Life</i> , 2021, 11, 656.	1.1	16
119	High performance inkjet printed embedded electrochemical sensors for monitoring hypoxia in a gut bilayer microfluidic chip. <i>Lab on A Chip</i> , 2022, 22, 1764-1778.	3.1	16
120	Solution processed Al doped ZnO film fabrication through electrohydrodynamic atomization. <i>Thin Solid Films</i> , 2012, 520, 6398-6403.	0.8	15
121	Electrohydrodynamic atomization approach to graphene/zinc oxide film fabrication for application in electronic devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1097-1104.	1.1	15
122	Optical security system for the protection of personal identification information. <i>Applied Optics</i> , 2005, 44, 742.	2.1	14
123	Investigation on switching behavior of ZrO ₂ thin film for memory device applications. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1285-1291.	1.9	14
124	Atmospheric deposition process for enhanced hybrid organic-inorganic multilayer barrier thin films for surface protection. <i>Applied Surface Science</i> , 2017, 422, 273-282.	3.1	14
125	Combinatory interpretation of protein corona and shear stress for active cancer targeting of bioorthogonally clickable gelatin-oleic nanoparticles. <i>Materials Science and Engineering C</i> , 2020, 111, 110760.	3.8	14
126	A Robust Surface-Modified Separator Fabricated with Roll-to-Roll Atomic Layer Deposition and Electrohydrodynamic Deposition Techniques for High Temperature Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160507.	1.3	14

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127	Development and ejection behavior of different material-based electrostatic ink-jet heads. International Journal of Advanced Manufacturing Technology, 2010, 48, 165-173.	1.5	13
128	Flexible large area organic light emitting diode fabricated by electrohydrodynamics atomization technique. Journal of Materials Science: Materials in Electronics, 2015, 26, 7192-7199.	1.1	13
129	Significance of encapsulating organic temperature sensors through spatial atmospheric atomic layer deposition for protection against humidity. Journal of Materials Science: Materials in Electronics, 2018, 29, 14396-14405.	1.1	13
130	Experimental and numerical analysis of three Y-shaped split and recombination micromixers based on cantor fractal structures. Microsystem Technologies, 2020, 26, 1783-1796.	1.2	13
131	An new approach for intelligent control system design using the modified genetic algorithm. International Journal of Intelligent Systems Technologies and Applications, 2010, 9, 300.	0.2	12
132	Cross-talk effect in electrostatic based capillary array nozzles. Journal of Mechanical Science and Technology, 2011, 25, 3053-3062.	0.7	12
133	Direct Fabrication of Copper Nanoparticle Patterns through Electrohydrodynamic Printing in Cone-Jet Mode. Materials and Manufacturing Processes, 2012, 27, 1295-1299.	2.7	12
134	Versatile resistive switching (memristive) behavior in an ITO/ZRO2/AG sandwich fabricated using electrohydrodynamic printing. Journal of the Korean Physical Society, 2012, 61, 119-123.	0.3	12
135	Hydrophobicity enhancement of Al ₂ O ₃ thin films deposited on polymeric substrates by atomic layer deposition with perfluoropropane plasma treatment. Applied Surface Science, 2014, 305, 554-561.	3.1	12
136	Mechanochemical Reinforcement of Graphene Sheets into Alkyd Resin Matrix for the Development of Electrically Conductive Paints. ChemNanoMat, 2018, 4, 568-574.	1.5	12
137	Gravity-Based Flow Efficient Perfusion Culture System for Spheroids Mimicking Liver Inflammation. Biomedicines, 2021, 9, 1369.	1.4	12
138	Electrospray deposition of thin copper-indium-diselenide films. International Journal of Materials Research, 2011, 102, 1252-1260.	0.1	11
139	Electrohydrodynamic printed TiO ₂ flexible memory device “ fabrication and characterisation. Electronics Letters, 2012, 48, 1261.	0.5	11
140	Resistive Switching in a Printed Nanolayer of Poly(4-vinylphenol). Journal of Electronic Materials, 2013, 42, 1202-1208.	1.0	11
141	Hybrid electrohydrodynamic atomization of nanostructured silver top contact for inverted organic solar cells. Solar Energy Materials and Solar Cells, 2014, 130, 156-162.	3.0	11
142	Exploring resistive switching in poly(4-vinylphenol)“graphene nano-composite films. Japanese Journal of Applied Physics, 2015, 54, 035103.	0.8	11
143	Al ₂ O ₃ Coatings Fabrication on Silver Nanowires through Low Temperature Atomic Layer Deposition. Materials and Manufacturing Processes, 2014, 29, 1056-1061.	2.7	10
144	Study on Path Generation and Control based on Dual Laser in Solid Freeform Fabrication System. , 2006, , .		9

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145	Development of industrial SFF system using dual laser and optimal process. Robotics and Computer-Integrated Manufacturing, 2007, 23, 659-666.	6.1	9
146	Structural and Electrical Properties of Ag Grid/Poly(3,4-ethylenedioxythiophene):Poly(styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Nanoscience and Nanotechnology, 2013, 13, 5957-5963.	0.9	9
147	Stretchability and resistive behavior of silver (Ag) nanoparticle films on polydimethylsiloxane (PDMS) with random micro ridges. Journal of Materials Science: Materials in Electronics, 2014, 25, 3375-3382.	1.1	9
148	Experimental Qualification of the Process of Electrostatic Spray Deposition. Coatings, 2019, 9, 294.	1.2	9
149	Highly sensitive mechano-optical strain sensors based on 2D materials for human wearable monitoring and high-end robotic applications. Journal of Materials Chemistry C, 2022, 10, 932-940.	2.7	9
150	Frequency and Molecular Characterization of Staphylococcus aureus from Placenta of Mothers with Term and Preterm Deliveries. Life, 2022, 12, 257.	1.1	9
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152	Characterization of Al ₂ O ₃ Thin Films Fabricated at Low Temperature via Atomic Layer Deposition on PEN Substrates. Chemical Vapor Deposition, 2014, 20, 118-124.	1.4	8
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