

# 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	Highly sensitive mechano-optical strain sensors based on 2D materials for human wearable monitoring and high-end robotic applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 932-940.	2.7	9
2	Study of the Anticancer Potential of Plant Extracts Using Liver Tumor Microphysiological System. <i>Life</i> , 2022, 12, 135.	1.1	8
3	Frequency and Molecular Characterization of <i>Staphylococcus aureus</i> from Placenta of Mothers with Term and Preterm Deliveries. <i>Life</i> , 2022, 12, 257.	1.1	9
4	Evaluation of Antimicrobial and Anticancer Activities of Selected Medicinal Plants of Himalayas, Pakistan. <i>Plants</i> , 2022, 11, 48.	1.6	17
5	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
6	Decade of bio-inspired soft robots: a review. <i>Smart Materials and Structures</i> , 2022, 31, 073002.	1.8	34
7	Multi-material Bio-inspired Soft Octopus Robot for Underwater Synchronous Swimming. <i>Journal of Bionic Engineering</i> , 2022, 19, 1229-1241.	2.7	23
8	A comprehensive review of artificial intelligence and network based approaches to drug repurposing in Covid-19. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113350.	2.5	31
9	Numerical and experimental investigation of Y-shaped micromixers with mixing units based on cantor fractal structure for biodiesel applications. <i>Microsystem Technologies</i> , 2021, 27, 2203-2216.	1.2	7
10	A Weldless Approach for Thermocouple Fabrication Through Direct Ink Writing Technique. <i>IEEE Sensors Journal</i> , 2021, 21, 1279-1286.	2.4	4
11	Real-time monitoring of liver fibrosis through embedded sensors in a microphysiological system. <i>Nano Convergence</i> , 2021, 8, 3.	6.3	35
12	MWCNTs/PEDOT: PSS Composite as Guiding Layer on Screen-Printed Carbon Electrode for Linear Range Lactate Detection. <i>Journal of the Electrochemical Society</i> , 2021, 168, 037507.	1.3	8
13	A highly efficient composite separator embedded with colloidal lanthanum oxide nanocrystals for high-temperature lithium-ion batteries. <i>International Journal of Energy Research</i> , 2021, 45, 11179-11192.	2.2	6
14	Microphysiological system with continuous analysis of albumin for hepatotoxicity modeling and drug screening. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 318-326.	2.9	34
15	Phytochemical Investigation, Antimicrobial, Antioxidant and Anticancer Activities of <i>Acer cappadocicum</i> Gled. <i>Life</i> , 2021, 11, 656.	1.1	16
16	Extracellular Matrix Optimization for Enhanced Physiological Relevance in Hepatic Tissue-Chips. <i>Polymers</i> , 2021, 13, 3016.	2.0	23
17	Gravity-Based Flow Efficient Perfusion Culture System for Spheroids Mimicking Liver Inflammation. <i>Biomedicines</i> , 2021, 9, 1369.	1.4	12
18	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

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19	Two-Dimensional Transition Metal Carbides and Nitrides (MXenes) for Water Purification and Antibacterial Applications. <i>Membranes</i> , 2021, 11, 869.	1.4	33
20	Silicone Elastomer Composites Fabricated with MgO and MgO-Multi-Wall Carbon Nanotubes with Improved Thermal Conductivity. <i>Nanomaterials</i> , 2021, 11, 3418.	1.9	6
21	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
22	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
23	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
24	Experimental and numerical analysis of three Y-shaped split and recombination micromixers based on cantor fractal structures. <i>Microsystem Technologies</i> , 2020, 26, 1783-1796.	1.2	13
25	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
26	On-chip real-time detection and quantification of reactive oxygen species in MCF-7 cells through an in-house built fluorescence microscope. <i>Microelectronic Engineering</i> , 2020, 233, 111432.	1.1	7
27	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
28	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
29	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
30	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
31	Electrohydrodynamically Atomized pH-Responsive PLGA/ZnO Quantum Dots for Local Delivery in Lung Cancer. <i>Macromolecular Research</i> , 2020, 28, 407-414.	1.0	6
32	Resistive switching device based on SrTiO <sub>3</sub> /PVA hybrid composite thin film as active layer. <i>Polymer</i> , 2020, 189, 122183.	1.8	28
33	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
34	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
35	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
36	Robust Fluidic Biocompatible Strain Sensor Based on PEDOT:PSS/CNT Composite for Human-wearable and High-end Robotic Applications. <i>Sensors and Materials</i> , 2020, 32, 4077.	0.3	8

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37	Optimal parametric mixing analysis of active and passive micromixers using Taguchi method. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2019, 233, 1292-1303.	1.4	17
38	Encapsulation of polyvinyl alcohol based flexible temperature sensor through spatial atmospheric atomic layer deposition system to enhance its lifetime. Thin Solid Films, 2019, 673, 44-51.	0.8	19
39	A highly sensitive biodegradable pressure sensor based on nanofibrous dielectric. Sensors and Actuators A: Physical, 2019, 294, 140-147.	2.0	57
40	Experimental Qualification of the Process of Electrostatic Spray Deposition. Coatings, 2019, 9, 294.	1.2	9
41	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. New Journal of Chemistry, 2019, 43, 7636-7645.	1.4	37
42	All-range flexible and biocompatible humidity sensor based on poly lactic glycolic acid (PLGA) and its application in human breathing for wearable health monitoring. Journal of Materials Science: Materials in Electronics, 2019, 30, 9455-9465.	1.1	43
43	Experimental and numerical analysis of Y-shaped split and recombination micro-mixer with different mixing units. Chemical Engineering Journal, 2019, 358, 691-706.	6.6	65
44	Numerical Investigation of Surface Acoustic Wave (SAW) Interacting with a Droplet for Point-of-Care Devices. , 2019, 24, 632-637.		2
45	Selection of Sensors, Transducers, and Actuators. , 2019, , 29-51.		0
46	Mechanochemical Reinforcement of Graphene Sheets into Alkyd Resin Matrix for the Development of Electrically Conductive Paints. ChemNanoMat, 2018, 4, 568-574.	1.5	12
47	3D printing for soft robotics “a review. Science and Technology of Advanced Materials, 2018, 19, 243-262.	2.8	284
48	2D nanocomposite of hexagonal boron nitride nanoflakes and molybdenum disulfide quantum dots applied as the functional layer of all-printed flexible memory device. Materials Research Bulletin, 2018, 105, 28-35.	2.7	17
49	Printing an ITO-free flexible poly (4-vinylphenol) resistive switching device. Physica B: Condensed Matter, 2018, 531, 223-229.	1.3	20
50	Liquid-assisted exfoliation of 2D hBN flakes and their dispersion in PEO to fabricate highly specific and stable linear humidity sensors. Journal of Materials Chemistry C, 2018, 6, 1421-1432.	2.7	42
51	Fully 3D Printed Multi-Material Soft Bio-Inspired Whisker Sensor for Underwater-Induced Vortex Detection. Soft Robotics, 2018, 5, 122-132.	4.6	55
52	Wide range highly sensitive relative humidity sensor based on series combination of MoS2 and PEDOT:PSS sensors array. Sensors and Actuators B: Chemical, 2018, 266, 354-363.	4.0	70
53	Dip coated stretchable and bendable PEDOT:PSS films on low modulus micro-bumpy PDMS substrate. Journal of Polymer Engineering, 2018, 38, 469-474.	0.6	1
54	Single Layer Printed Photodetector Based on MEH:PPV-MoS2 Quantum Dots Composite. , 2018, , .		0

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55	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
56	Area-selective Atomic Layer Deposition Using Inkjet-printed Fluorocarbon Patterns as Mask Layers. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 1478-1481.	0.1	1
57	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
58	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
59	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
60	Significance of encapsulating organic temperature sensors through spatial atmospheric atomic layer deposition for protection against humidity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14396-14405.	1.1	13
61	Hybrid multilayer thin-film fabrication by atmospheric deposition process for enhancing the barrier performance. <i>Journal of Coatings Technology Research</i> , 2018, 15, 1391-1399.	1.2	4
62	A Study on the Organic-Inorganic Multilayer Barrier Thin Films Using R2R Low-Temperature Atmospheric-Pressure Atomic Layer Deposition System. <i>Journal of the Korean Society of Manufacturing Process Engineers</i> , 2018, 17, 51-58.	0.1	0
63	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
64	Highly Sensitive Flexible Human Motion Sensor Based on ZnSnO <sub>3</sub> /PVDF Composite. <i>Journal of Electronic Materials</i> , 2017, 46, 4172-4179.	1.0	19
65	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
66	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
67	Resistive switching phenomena induced by the heterostructure composite of ZnSnO <sub>3</sub> nanocubes interspersed ZnO nanowires. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5528-5537.	2.7	35
68	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
69	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. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 335104.	1.3	33
70	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
71	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
72	Linear bi-layer humidity sensor with tunable response using combinations of molybdenum carbide with polymers. <i>Sensors and Actuators A: Physical</i> , 2017, 262, 68-77.	2.0	29

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73	Linear humidity sensor fabrication using bi-layered active region of transition metal carbide and polymer thin films. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 725-734.	4.0	34
74	Low-temperature fabrication of TiO <sub>2</sub> film on flexible substrate by atmospheric roll-to-roll CVD. <i>Journal of Coatings Technology Research</i> , 2017, 14, 701-708.	1.2	5
75	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
76	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
77	A High-Energy Aqueous Sodium-Ion Capacitor with Nickel Hexacyanoferrate and Graphene Electrodes. <i>ChemElectroChem</i> , 2017, 4, 3302-3308.	1.7	49
78	Omni Directional Multimaterial Soft Cylindrical Actuator and Its Application as a Steerable Catheter. <i>Soft Robotics</i> , 2017, 4, 224-240.	4.6	25
79	All-printed highly sensitive 2D MoS <sub>2</sub> based multi-reagent immunosensor for smartphone based point-of-care diagnosis. <i>Scientific Reports</i> , 2017, 7, 5802.	1.6	31
80	A biomimetic jumping locomotion of functionally graded frog soft robot. , 2017, , .		8
81	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
82	Electromechanical Response of Dip-Coated Silver Films on Micro-Bumpy Polymer Surface. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 1903-1908.	1.7	0
83	FSI modeling of frog inspired soft robot embedded with ALD encapsulated flex sensor for underwater synchronous swim. , 2017, , .		3
84	3D Printing Based Single-Build Process for Electronic Devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7259-7263.	0.9	0
85	Fabrication of ZnSnO <sub>3</sub> 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
86	<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
87	Resistive-switching and current-conduction mechanisms in F8BT polymer resistive switch. <i>Micro and Nano Letters</i> , 2016, 11, 712-714.	0.6	5
88	Enhanced resistive switching in all-printed, hybrid and flexible memory device based on perovskite ZnSnO <sub>3</sub> via PVOH polymer. <i>Polymer</i> , 2016, 100, 102-110.	1.8	61
89	Bio-compatible organic humidity sensor transferred to arbitrary surfaces fabricated using single-cell-thick onion membrane as both the substrate and sensing layer. <i>Scientific Reports</i> , 2016, 6, 30065.	1.6	29
90	Resistive Switching in All-Printed, Flexible and Hybrid MoS <sub>2</sub> -PVA Nanocomposite based Memristive Device Fabricated by Reverse Offset. <i>Scientific Reports</i> , 2016, 6, 36195.	1.6	122

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91	Remote monitoring of environment using multi-sensor wireless node installed on quad-copter drone. , 2016, , .		5
92	Fabrication of zinc stannate based all-printed resistive switching device. Materials Letters, 2016, 166, 311-316.	1.3	28
93	Direct synthesis of graphene quantum dots from multilayer graphene flakes through grinding assisted co-solvent ultrasonication for all-printed resistive switching arrays. RSC Advances, 2016, 6, 5068-5078.	1.7	43
94	Fabrication of blue luminescent MoS <sub>2</sub> quantum dots by wet grinding assisted co-solvent sonication. Journal of Luminescence, 2016, 169, 342-347.	1.5	59
95	Improvement of Spray Coating Uniformity using ESD Electrodes. Journal of the Korean Society of Manufacturing Process Engineers, 2016, 15, 118-124.	0.1	1
96	A Study on Organic/Inorganic Materials Deposition Using SAW-ED System. Journal of the Korean Society of Manufacturing Process Engineers, 2016, 15, 100-108.	0.1	1
97	Implementation of Biosensor Pattern Using Micro Patterning Technique. Journal of the Korean Society of Manufacturing Process Engineers, 2016, 15, 122-128.	0.1	2
98	Hybrid Surface Acoustic Wave- Electrohydrodynamic Atomization (SAW-EHDA) For the Development of Functional Thin Films. Scientific Reports, 2015, 5, 15178.	1.6	30
99	Fabrication and conduction mechanism evaluation of polyfluorene polymeric Schottky diode. Polymers for Advanced Technologies, 2015, 26, 1109-1113.	1.6	0
100	Synthesis of ZnSnO <sub>3</sub> nanocubes and thin film fabrication of (ZnSnO <sub>3</sub> /PMMA) composite through electrospray deposition. Journal of Materials Science: Materials in Electronics, 2015, 26, 5690-5696.	1.1	30
101	Different approaches to PVP/graphene composite film fabrication using electrohydrodynamic atomization technique. Journal of Materials Science: Materials in Electronics, 2015, 26, 2039-2044.	1.1	5
102	Stretchability of Silver Films on Thin Acid-Etched Rough Polydimethylsiloxane Substrates Fabricated by Electrospray Deposition. Journal of Electronic Materials, 2015, 44, 2514-2521.	1.0	2
103	Flexible and passive photo sensor based on perylene/graphene composite. Sensors and Actuators B: Chemical, 2015, 220, 634-640.	4.0	16
104	Resistive behaviour of silver nanoparticle films on ultra-low modulus polydimethylsiloxane with trench type roughness. Journal Physics D: Applied Physics, 2015, 48, 015303.	1.3	1
105	Exploring resistive switching in poly(4-vinylphenol)â€“graphene nano-composite films. Japanese Journal of Applied Physics, 2015, 54, 035103.	0.8	11
106	Improvement of solution based conjugate polymer organic light emitting diode by ZnOâ€“graphene quantum dots. Journal of Materials Science: Materials in Electronics, 2015, 26, 3344-3351.	1.1	28
107	Fabrication of graphene-nanoflake/poly(4-vinylphenol) polymer nanocomposite thin film by electrohydrodynamic atomization and its application as flexible resistive switching device. Physica B: Condensed Matter, 2015, 475, 148-155.	1.3	17
108	Quasi-linearizability of various benchmark control mechanical systems. , 2015, , .		0



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109	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
110	Humidity Sensor Based on PEDOT:PSS and Zinc Stannate Nano-composite. <i>Journal of Electronic Materials</i> , 2015, 44, 3992-3999.	1.0	37
111	Flexible large area organic light emitting diode fabricated by electrohydrodynamics atomization technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7192-7199.	1.1	13
112	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
113	Screen printed silver top electrode for efficient inverted organic solar cells. <i>Materials Research Bulletin</i> , 2015, 70, 412-415.	2.7	20
114	Rapid fabrication of Al <sub>2</sub> O <sub>3</sub> encapsulations for organic electronic devices. <i>Applied Surface Science</i> , 2015, 353, 1186-1194.	3.1	21
115	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
116	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
117	Organic non-volatile memory cell based on resistive elements through electro-hydrodynamic technique. <i>Organic Electronics</i> , 2015, 17, 121-128.	1.4	28
118	Stretchable and flexible resistive behavior of poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) thin film on ultra-low modulus polydimethylsiloxane with trench-type roughness. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 226-233.	2.4	4
119	Versatile poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) films on polydimethylsiloxane substrates having random micro ridges: Study of resistive behaviors of a polymer-polymer laminate. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	4
120	A Study of High Viscosity Phosphor Dispensing for an Electrostatic Printing System. <i>Transactions of Materials Processing</i> , 2015, 24, 83-88.	0.1	3
121	High rate roll-to-roll atmospheric atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> thin films towards gas diffusion barriers on polymers. <i>Materials Letters</i> , 2014, 136, 90-94.	1.3	37
122	Development of Nanostructured ZnO Thin Film via Electrohydrodynamic Atomization Technique and Its Photoconductivity Characteristics. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5849-5855.	0.9	4
123	Characterization of flexible temperature sensor fabricated through drop-on-demand electrohydrodynamics patterning. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05HB02.	0.8	28
124	Hydrophobicity enhancement of Al <sub>2</sub> O <sub>3</sub> thin films deposited on polymeric substrates by atomic layer deposition with perfluoropropane plasma treatment. <i>Applied Surface Science</i> , 2014, 305, 554-561.	3.1	12
125	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
126	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



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127	Direct fabrication of graphene/zinc oxide composite film and its characterizations. Applied Physics A: Materials Science and Processing, 2014, 114, 323-330.	1.1	16
128	Conductivity enhancement of PEDOT:PSS thin film using roll to plate technique and its characterization as a Schottky diode. Journal of Materials Science: Materials in Electronics, 2014, 25, 1033-1039.	1.1	6
129	Fabrication of flexible SWCNT thin films through electrohydrodynamic atomization technique and investigation of their electrical properties. Materials Letters, 2014, 115, 215-218.	1.3	5
130	Low-Temperature Roll-to-Roll Atmospheric Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> Thin Films. Langmuir, 2014, 30, 14195-14203.	1.6	34
131	Characterization of Al <sub>2</sub> O <sub>3</sub> Thin Films Fabricated at Low Temperature via Atomic Layer Deposition on PEN Substrates. Chemical Vapor Deposition, 2014, 20, 118-124.	1.4	8
132	Dielectric Characterization of Pigment Inks for Electrohydrodynamic Jet Printing. Industrial & Engineering Chemistry Research, 2014, 53, 17445-17453.	1.8	4
133	Roll-to-Roll Atmospheric Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> Thin Films on PET Substrates. Chemical Vapor Deposition, 2014, 20, 380-387.	1.4	24
134	Al <sub>2</sub> O <sub>3</sub> Coatings Fabrication on Silver Nanowires through Low Temperature Atomic Layer Deposition. Materials and Manufacturing Processes, 2014, 29, 1056-1061.	2.7	10
135	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
136	A backstepping-based control algorithm for multi-span roll-to-roll web system. International Journal of Advanced Manufacturing Technology, 2014, 70, 45-61.	1.5	19
137	Characterization of Al <sub>2</sub> O <sub>3</sub> thin films fabricated through atomic layer deposition on polymeric substrates. Journal of Materials Science: Materials in Electronics, 2014, 25, 1922-1932.	1.1	6
138	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
139	Web Tension regulation of multispan roll-to-roll system using integrated active dancer and load cells for printed electronics applications. Chinese Journal of Mechanical Engineering (English) Tj ETQq1 1 0.784314.rgBT / Overclock 10		
140	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). Electronic Materials Letters, 2014, 10, 601-606.	1.0	23
141	Structural, optical, and electrical characterization of the poly[9,9-dioctylfluorenyl-2,7-diyl]-co-1,4-benzo-(2,1,3)-thiadiazole thin film fabricated by electrostatic spray technique. Polymer Engineering and Science, 2014, 54, 675-681.	1.5	4
142	Fabrication of CdSe/ZnS quantum dots thin film by electrohydrodynamics atomization technique for solution based flexible hybrid OLED application. Chemical Engineering Journal, 2014, 253, 325-331.	6.6	35
143	Rapid fabrication of graphene/ZnO composite thin film. Japanese Journal of Applied Physics, 2014, 53, 05HA01.	0.8	1
144	Implementation of High Performance Micro Electrode Pattern Using High Viscosity Conductive Ink Patterning Technique. Journal of the Korean Society for Precision Engineering, 2014, 31, 83-90.	0.1	3

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145	A Study on High Viscosity Phosphor Dispensing Process for Implementation of High-Efficiency White LED. <i>Clean Technology</i> , 2014, 20, 97-102.	0.1	1
146	A Study of Micro Stencil Printing based on Solution Atomization Process. <i>Journal of the Korean Society for Precision Engineering</i> , 2014, 31, 483-489.	0.1	1
147	Characterization of the small molecule based organic thin film fabricated by electrospray deposition technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 4321-4327.	1.1	4
148	Resistive Switching in a Printed Nanolayer of Poly(4-vinylphenol). <i>Journal of Electronic Materials</i> , 2013, 42, 1202-1208.	1.0	11
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