

Ajit Khosla

List of Publications by Year in descending order

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200
papers

4,025
citations

147801

31
h-index

155660

55
g-index

207
all docs

207
docs citations

207
times ranked

3292
citing authors

#	ARTICLE	IF	CITATIONS
1	Review“Organic-Inorganic Hybrid Functional Materials: An Integrated Platform for Applied Technologies. Journal of the Electrochemical Society, 2018, 165, B3137-B3156.	2.9	282
2	Review“Recent Advances in Carbon Nanomaterials as Electrochemical Biosensors. Journal of the Electrochemical Society, 2020, 167, 037555.	2.9	272
3	Review“Towards 5th Generation AI and IoT Driven Sustainable Intelligent Sensors Based on 2D MXenes and Borophene. , 2022, 1, 013601.		238
4	Recent Advances in Electrochemical Biosensors: Applications, Challenges, and Future Scope. Biosensors, 2021, 11, 336.	4.7	175
5	Review“Influence of Processing Parameters to Control Morphology and Optical Properties of Sol-Gel Synthesized ZnO Nanoparticles. ECS Journal of Solid State Science and Technology, 2021, 10, 023002.	1.8	141
6	Review“Recent Advances in Tin Oxide Nanomaterials as Electrochemical/Chemiresistive Sensors. Journal of the Electrochemical Society, 2021, 168, 027505.	2.9	130
7	4D printing: Fundamentals, materials, applications and challenges. Polymer, 2021, 228, 123926.	3.8	118
8	Preparation, characterization and micromolding of multi-walled carbon nanotube polydimethylsiloxane conducting nanocomposite polymer. Materials Letters, 2009, 63, 1203-1206.	2.6	105
9	Engineered Hierarchical CuO Nanoleaves Based Electrochemical Nonenzymatic Biosensor for Glucose Detection. Journal of the Electrochemical Society, 2021, 168, 017501.	2.9	83
10	Flexible Ultraviolet Photodetectors Based on One-Dimensional Gallium-Doped Zinc Oxide Nanostructures. ACS Applied Electronic Materials, 2020, 2, 3522-3529.	4.3	82
11	Synthesis of various dimensional metal organic frameworks (MOFs) and their hybrid composites for emerging applications “ A review. Chemosphere, 2022, 298, 134184.	8.2	82
12	Perspective“Electrochemical Sensors for Soil Quality Assessment. Journal of the Electrochemical Society, 2020, 167, 037550.	2.9	80
13	Multi-Walled Carbon Nanotubes Decorated with Silver Nanoparticles for Acetone Gas Sensing at Room Temperature. Journal of the Electrochemical Society, 2020, 167, 167519.	2.9	75
14	Electrochemical Detection of H_2O_2 Using an Activated Glassy Carbon Electrode. , 2022, 1, 034401.		73
15	Synthesis of Au“SnO ₂ nanoparticles for electrochemical determination of vitamin B12. Journal of Materials Research and Technology, 2020, 9, 14321-14337.	5.8	66
16	Performance analysis, challenges and future perspectives of nickel based nanostructured electrodes for electrochemical supercapacitors. Journal of Materials Research and Technology, 2021, 11, 564-599.	5.8	65
17	3D printing of shape memory hydrogels with tunable mechanical properties. Soft Matter, 2018, 14, 7809-7817.	2.7	59
18	Review“Recent Advances in Nanostructured Graphitic Carbon Nitride as a Sensing Material for Heavy Metal Ions. Journal of the Electrochemical Society, 2020, 167, 037519.	2.9	57

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19	Synthesis of SnO ₂ nanowires as a reusable and flexible electrode for electrochemical detection of riboflavin. <i>Microchemical Journal</i> , 2020, 156, 104858.	4.5	57
20	A non enzymatic glutamate sensor based on nickel oxide nanoparticle. <i>Microsystem Technologies</i> , 2018, 24, 4217-4223.	2.0	56
21	Hydrothermally Synthesized Nickel Oxide Nanosheets for Non-Enzymatic Electrochemical Glucose Detection. <i>Journal of the Electrochemical Society</i> , 2020, 167, 107504.	2.9	56
22	Rheological and mechanical properties of edible gel materials for 3D food printing technology. <i>Heliyon</i> , 2020, 6, e05859.	3.2	50
23	Review—Recent Progresses in 4D Printing of Gel Materials. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037563.	2.9	45
24	Highly stable self-charging piezoelectric (Rochelle salt) driven supercapacitor based on Ni nanowires. <i>Chemical Engineering Journal</i> , 2021, 424, 130567.	12.7	44
25	Surface Reconstruction on Uniform Cu Nanodisks Boosted Electrochemical Nitrate Reduction to Ammonia. , 2022, 4, 650-656.		42
26	Performance of Electrochemically Synthesized Nickel-Zinc and Nickel-Iron (Ni—Zn//Ni—Fe) Nanowires as Battery Type Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120527.	2.9	40
27	Soft, conductive nanocomposites based on ionic liquids/carbon nanotubes for 3D printing of flexible electronic devices. <i>Polymer Journal</i> , 2019, 51, 511-521.	2.7	39
28	Promising photocatalytic degradation of methyl orange dye via sol-gel synthesized Ag—CdS@Pr-TiO ₂ core/shell nanoparticles. <i>Physica B: Condensed Matter</i> , 2021, 616, 413121.	2.7	38
29	Engineered CuO Nanofibers with Boosted Non-Enzymatic Glucose Sensing Performance. <i>Journal of the Electrochemical Society</i> , 2021, 168, 067507.	2.9	37
30	Review—Recent Advances in the Development of Carbon Nanotubes Based Flexible Sensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 047506.	2.9	36
31	High performance asymmetric supercapacitor based on vertical nanowire arrays of a novel Ni@Co—Fe LDH core@shell as negative and Ni(OH) ₂ as positive electrode. <i>Nanotechnology</i> , 2020, 31, 245401.	2.6	36
32	Electrical impedance, electrochemistry, mechanical stiffness, and hardness tunability in glassy carbon MEMS 1/4 ECoG electrodes. <i>Microelectronic Engineering</i> , 2015, 133, 36-44.	2.4	34
33	Review—Recent Advances and Challenges in Indium Gallium Nitride (In _x Ga _{1-x} N) Materials for Solid State Lighting. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 015011.	1.8	34
34	Emerging role of trimethylamine-N-oxide (TMAO) in colorectal cancer. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7651-7660.	3.6	34
35	Creeping flow through ordered arrays of micro-cylinders embedded in a rectangular minichannel. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3900-3908.	4.8	33
36	A CPW-fed flexible UWB antenna for IoT applications. <i>Microsystem Technologies</i> , 2022, 28, 5-11.	2.0	33

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37	(Invited) Micropatternable Multifunctional Nanocomposite Polymers for Flexible Soft NEMS and MEMS Applications. ECS Transactions, 2012, 45, 477-494.	0.5	31
38	Development of Tungsten Oxide Nanoparticle Modified Carbon Fibre Cloth as Flexible pH Sensor. Scientific Reports, 2019, 9, 4659.	3.3	31
39	Preparation, Micro-Patterning and Electrical Characterization of Functionalized Carbon-Nanotube Polydimethylsiloxane Nanocomposite Polymer. Macromolecular Symposia, 2010, 297, 210-218.	0.7	30
40	Special Issue on 2nd International Conference on Smart Systems Engineering (SmaSys 2014). Microsystem Technologies, 2016, 22, 1-1.	2.0	30
41	Carbon fiber doped thermosetting elastomer for flexible sensors: physical properties and microfabrication. Scientific Reports, 2018, 8, 12313.	3.3	30
42	Fully 3D-Printed Hydrogel Actuator for Jellyfish Soft Robots. ECS Journal of Solid State Science and Technology, 2021, 10, 037002.	1.8	30
43	Improvement of the UV-Sensing Performance of Ga-Doped ZnO Nanostructures via a Wet Chemical Solution at Room Temperature. ECS Journal of Solid State Science and Technology, 2021, 10, 127001.	1.8	30
44	Facile Synthesis of Carbon Nanobelts Decorated with Cu and Pd for Nitrate Electroreduction to Ammonia. ACS Applied Materials & Interfaces, 2022, 14, 30969-30978.	8.0	30
45	Nanoparticle-doped Electrically-conducting Polymers for Flexible Nano-Micro Systems. Electrochemical Society Interface, 2012, 21, 67-70.	0.4	28
46	Synthesis and Characterization of an Efficient Hole-Conductor Free Halide Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ Semiconductor Absorber Based Photovoltaic Device for IOT. Journal of the Electrochemical Society, 2018, 165, B3023-B3029.	2.9	27
47	Highly Sensitive Hydrazine Detection Using a Vertically Oriented ZnO Nanosheet-based Field-Effect Transistor. Journal of the Electrochemical Society, 2020, 167, 167513.	2.9	26
48	Functionalization and characterization of pyrolyzed polymer based carbon microstructures for bionanoelectronics platforms. Journal of Micromechanics and Microengineering, 2013, 23, 115001.	2.6	25
49	Micro and nanostructure based electrochemical sensor platform for glutamate detection. Microsystem Technologies, 2018, 24, 4193-4206.	2.0	21
50	Fabrication of multiwalled carbon nanotube polydimethylsiloxane nanocomposite polymer flexible microelectrodes for microfluidics and MEMS. Proceedings of SPIE, 2010, , .	0.8	20
51	Eu doped $\text{NaYF}_4\text{:Er,TiO}_2$ nanoparticles for tunable ultraviolet light based anti-counterfeiting applications. Microsystem Technologies, 2020, , 1.	2.0	19
52	Fabrication Process for Electromagnetic Actuators Compatible with Polymer Based Microfluidic Devices. ECS Transactions, 2012, 41, 7-17.	0.5	18
53	Investigations of Flexible Ag/AgCl Nanocomposite Polymer Electrodes for Suitability in Tissue Electrical Impedance Scanning (EIS). Journal of the Electrochemical Society, 2014, 161, B3071-B3076.	2.9	17
54	3D printing of electrically conductive hybrid organic-inorganic composite materials. Microsystem Technologies, 2018, 24, 4341-4345.	2.0	17

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55	Investigation of Printing Properties on Paper Substrate. Journal of the Electrochemical Society, 2018, 165, B3163-B3167.	2.9	17
56	Structural and spectral studies of Ce ³⁺ doped Sr ₃ Y(BO ₃) ₃ nano phosphors prepared by combustion synthesis. Materials Technology, 2022, 37, 450-461.	3.0	17
57	Review“Recent Advances in Block-Copolymer Nanostructured Subwavelength Antireflective Surfaces. Journal of the Electrochemical Society, 2020, 167, 037502.	2.9	16
58	A highly sensitive uric acid biosensor based on vertically arranged ZnO nanorods on a ZnO nanoparticle-seeded electrode. New Journal of Chemistry, 2021, 45, 18863-18870.	2.8	16
59	Very Wide Sensing Range and Hysteresis Behaviors of Tactile Sensor Developed by Embedding Soft Ionic Gels in Soft Silicone Elastomers. ECS Journal of Solid State Science and Technology, 2020, 9, 061024.	1.8	16
60	Flexible and Conductive 3D Printable Polyvinylidene Fluoride and Poly(N,N-dimethylacrylamide) Based Gel Polymer Electrolytes. Macromolecular Materials and Engineering, 2020, 305, 2000262.	3.6	15
61	Salen type additives as corrosion mitigator for Ni-W alloys: Detailed electronic/atomic-scale computational illustration. International Journal of Quantum Chemistry, 2021, 121, e26600.	2.0	15
62	Review“Metal and Metal Oxide Nanoparticles/Nanocomposites as Electrochemical Biosensors for Cancer Detection. Journal of the Electrochemical Society, 2022, 169, 047504.	2.9	15
63	Bidirectional magnetic microactuators for uTAS. , 2011, , .		14
64	Bionanoelectronics Platform with DNA Molecular Wires Attached to High Aspect-Ratio 3D Metal Microelectrodes. ECS Journal of Solid State Science and Technology, 2014, 3, Q29-Q36.	1.8	14
65	Recent advances in anticancer and antimicrobial activity of silver nanoparticles synthesized using phytochemicals and organic polymers. Nanotechnology, 2021, 32, 462001.	2.6	14
66	Electrically Conducting PDMS Nanocomposite Using In Situ Reduction of Gold Nanostructures and Mechanical Stimulation of Carbon Nanotubes and Silver Nanoparticles. ECS Journal of Solid State Science and Technology, 2015, 4, S3048-S3052.	1.8	13
67	Electrical Conductivity and Linear Rheology of Multiwalled Carbon Nanotube/Acrylonitrile Butadiene Styrene Polymer Nanocomposites Prepared by Melt Mixing and Solution Casting. Journal of the Electrochemical Society, 2019, 166, B3091-B3095.	2.9	13
68	Improved pH-Sensing Characteristics by Pt Nanoparticle-Decorated ZnO Nanostructures. ECS Journal of Solid State Science and Technology, 2021, 10, 067001.	1.8	13
69	Fabrication and testing of integrated permanent micromagnets for microfluidic systems. Proceedings of SPIE, 2010, , .	0.8	12
70	Fabrication and testing of thermally responsive hydrogel-based actuators using polymer heater elements for flexible microvalves. Proceedings of SPIE, 2011, , .	0.8	12
71	Hybrid micromolding of silver micro fiber doped electrically conductive elastomeric composite polymer for flexible sensors and electronic devices. Microsystem Technologies, 2018, 24, 4159-4164.	2.0	12
72	Vanadium Redox Flow Batteries Fabricated by 3D Printing and Employing Recycled Vanadium Collected from Ammonia Slag. Journal of the Electrochemical Society, 2019, 166, B3125-B3130.	2.9	12

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73	Morphology-controlled synthesis and structural features of ultrafine nanoparticles of Co_3O_4 : An active electrode material for a supercapacitor. , 2022, 1, .		12
74	A New Low-Temperature Electrochemical Hydrocarbon and NOx Sensor. Sensors, 2017, 17, 2759.	3.8	11
75	Wide-Linear Range Cholesterol Detection Using Fe_2O_3 Nanoparticles Decorated ZnO Nanorods Based Electrolyte-Gated Transistor. Journal of the Electrochemical Society, 0, , .	2.9	11
76	Large scale micropatterning of multi-walled carbon nanotube/polydimethylsiloxane nanocomposite polymer on highly flexible 12Å–24 inch substrates. Proceedings of SPIE, 2011, , .	0.8	10
77	Electric control of friction on surface of high-strength hydrogels. Microsystem Technologies, 2018, 24, 639-646.	2.0	10
78	Density, excess molar volume and some of their derived properties of the binary systems of methyl acetate with methyl derivatives of monoethanolamine between 293.15 and 313.15ÅK. Microsystem Technologies, 2018, 24, 4357-4371.	2.0	10
79	Investigating photoluminescence properties of Eu^{3+} doped CaWO_4 nanoparticles via Bi^{3+} amalgamation for w/i -LEDs application. Materials Technology, 2022, 37, 1051-1061.	3.0	10
80	Review-Emerging Applications of g-C $_3$ N $_4$ Films in Perovskite-Based Solar Cells. ECS Journal of Solid State Science and Technology, 0, , .	1.8	10
81	CsPbBr_3 Nanoplatelets: Synthesis and Understanding of Ultraviolet Light-Induced Structural Phase Change and Luminescence Degradation. ECS Journal of Solid State Science and Technology, 2021, 10, 096002.	1.8	10
82	3D Printable Vapochromic Sensing Materials. Journal of the Electrochemical Society, 2020, 167, 167503.	2.9	10
83	Thermally Expanded Graphite Incorporated with PEDOT:PSS Based Anode for Microbial Fuel Cells with High Bioelectricity Production. Journal of the Electrochemical Society, 2022, 169, 017515.	2.9	10
84	Review-Recent Trends on the Synthesis and Different Characterization Tools for MXenes and their Emerging Applications. Journal of the Electrochemical Society, 2022, 169, 077501.	2.9	9
85	Role of Electrochemical Techniques for Photovoltaic and Supercapacitor Applications. Critical Reviews in Analytical Chemistry, 0, , 1-35.	3.5	9
86	Manufacturing of high aspect-ratio 3-dimensional PolyFerroCNT nanocomposite polymer electrodes. Microsystem Technologies, 2015, 21, 1619-1625.	2.0	8
87	Effect of nanocrystalline cellulose and zinc oxide hybrid organic-inorganic nanofiller on the physical properties of polycaprolactone nanocomposite films. Microsystem Technologies, 2022, 28, 143-152.	2.0	8
88	Organic MEMS/NEMS-based high-efficiency 3D ITO-less flexible photovoltaic cells. Journal of Micromechanics and Microengineering, 2012, 22, 115015.	2.6	7
89	Flexible Prussian blue/Carbon dots nanocomposite modified exfoliated graphite paper based sensor for simultaneous monitoring of hypertension and Parkinson disease. Microsystem Technologies, 2022, 28, 109-119.	2.0	7
90	Nano-donuts shaped nickel oxide nanostructures for sensitive non-enzymatic electrochemical detection of glucose. Microsystem Technologies, 2022, 28, 313-318.	2.0	7

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91	Fabrication of UV-micro-patternable permanent micro magnets for lab on a chip and MEMS. Proceedings of SPIE, 2010, , .	0.8	6
92	New technologies for large-scale micropatterning of functional nanocomposite polymers. Proceedings of SPIE, 2012, , .	0.8	6
93	Additive Manufacturing of Microreservoir Devices for Oral Drug Delivery Using an Acculas BA-30 Micro-Stereolithography Instrument: A Feasibility Study. Journal of the Electrochemical Society, 2019, 166, B3257-B3263.	2.9	6
94	Comparative study of PTB7:PC71BM based polymer solar cells fabricated under different working environments. Microsystem Technologies, 2022, 28, 269-274.	2.0	6
95	Preparation of cotton fabric based non-invasive colorimetric sensor for instant detection of ketones. Journal of Saudi Chemical Society, 2021, 25, 101340.	5.2	6
96	Manipulation of permanent magnetic polymer micro-robots: a new approach towards guided wireless capsule endoscopy. Proceedings of SPIE, 2012, , .	0.8	5
97	Functionalization of Pyrolyzed Carbon Structures for Bio-Nanoelectronics Platforms. ECS Transactions, 2013, 50, 325-331.	0.5	5
98	Screen printable flexible conductive nanocomposite polymer with applications to wearable sensors. Proceedings of SPIE, 2014, , .	0.8	5
99	AC electrical characterisation and insight to charge transfer mechanisms in DNA molecular wires through temperature and UV effects. IET Nanobiotechnology, 2015, 9, 153-163.	3.8	5
100	Fabrication of NdFeB-based permanent rare-earth micromagnets by novel hybrid micromolding process. Microsystem Technologies, 2015, 21, 2315-2320.	2.0	5
101	Fabrication of an ultra-sensitive hydrazine sensor based on nano-chips shaped nickel hydroxide modified electrodes. Microsystem Technologies, 2022, 28, 279-286.	2.0	5
102	Room Temperature Synthesis of Colossal Magneto-Resistance of $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$: $\text{Ag}_{0.10}$ Composite. ECS Journal of Solid State Science and Technology, 2021, 10, 027006.	1.8	5
103	Free standing porous composite films and membranes obtained through substrate-guided assembly. Materials Letters, 2021, 288, 129317.	2.6	5
104	Microfluidics, MEMS/NEMS, Sensors and Devices. Journal of the Electrochemical Society, 2014, 161, Y1-Y1.	2.9	4
105	Coriolis force for facilitating DNA molecular migration and hybridization in compact disk microfluidic platforms. Microsystem Technologies, 2015, 21, 719-732.	2.0	4
106	Microfabrication and characterization of UV micropatternable, electrically conducting polyaniline photoresist blends for MEMS applications. Microsystem Technologies, 2016, 22, 371-378.	2.0	4
107	Novel Soft Meals Developed by 3D Printing. , 0, , .		4
108	Preface "Semiconductor Electrochemistry and Photoelectrochemistry in Honor of Krishnan Rajeshwar. Journal of the Electrochemical Society, 2019, 166, Y5-Y6.	2.9	4

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109	Wireless Power-Data Transmission for Industrial Internet of Things: Simulations and Experiments. IEEE Access, 2020, 8, 187965-187974.	4.2	4
110	ECS Sensors Plus—An Electrochemical Society Journal. , 2022, 1, 010001.		4
111	Review—Nanostructured Materials for Sensing pH: Evolution, Fabrication and Challenges. Journal of the Electrochemical Society, 2022, 169, 057517.	2.9	4
112	Fabrication and properties of conductive micromoldable thermosetting polymer for electronic routing in highly flexible microfluidic systems. , 2010, , .		3
113	Pressure Drop in Microchannels Filled With Porous Media. , 2010, , .		3
114	Embedded process for flexible conductive electrodes for applications in tissue electrical impedance scanning (EIS). , 2011, , .		3
115	Smart garments in chronic disease management: progress and challenges. , 2012, , .		3
116	Preface—JES Focus Issue on Biosensors and Micro-Nano Fabricated Electromechanical Systems. Journal of the Electrochemical Society, 2017, 164, Y5-Y5.	2.9	3
117	Black carbon paper based polyanthraquinone coated exfoliated graphite for flexible paper battery. Microsystem Technologies, 2022, 28, 59-67.	2.0	3
118	Smart energy systems. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2019, 22, 452-456.	1.0	3
119	(Invited) Additive Manufacturing: Sustainable Manufacturing of Flexible Sensors, Systems and Devices. ECS Meeting Abstracts, 2020, MA2020-01, 2200-2200.	0.0	3
120	(Invited) Formation of Liposomes Containing Pre-Gel Solution and 3D-Printing Applications by Droplet-Shooting Method. ECS Transactions, 2020, 98, 85-92.	0.5	3
121	(Invited) 3D Printing and Wireless Power Transfer Systems for Soft Robotics Applications. ECS Transactions, 2020, 98, 55-58.	0.5	3
122	Applications for Low Frequency Impedance Analysis Systems. Journal of Electronic Testing: Theory and Applications (JETTA), 2010, 26, 139-144.	1.2	2
123	Photopatternable Electrical Conductive Ag- SU-8 Nanocomposite for MEMS/MST. ECS Transactions, 2010, 33, 313-318.	0.5	2
124	Initial experiments with flexible conductive electrodes for potential applications in cancer tissue screening. Proceedings of SPIE, 2011, , .	0.8	2
125	A new low-cost, thick-film metallization transfer process onto PDMS using a sacrificial copper seed. , 2014, , .		2
126	Electrochemically synthesized new class of molecularly imprinted poly-rhodamine b nanodots for the detection of nutritional anaemia biomarker-bovine haemoglobin in salt-sick cattle. Microsystem Technologies, 2018, 24, 4225-4235.	2.0	2

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127	Development of Multi-Material 3D Printer. ECS Transactions, 2018, 88, 449-453.	0.5	2
128	High Voltage Flexible ZnO Solar Cells Employing Bulky Organic Dye and [Co(bpy) ₃] ^{2+/3+} Redox Electrolyte. Journal of the Electrochemical Society, 2018, 165, B3194-B3200.	2.9	2
129	Fabrication, physical and optical properties of functionalized cellulose based polymethylmethacrylate nanocomposites. Microsystem Technologies, 2022, 28, 255-265.	2.0	2
130	Real Time Analysis of Biphasic Temperature Pattern of BBT Using NiMn ₂ O ₄ Nanocomposite Thermistor. Journal of the Electrochemical Society, 2020, 167, 137510.	2.9	2
131	(Invited) The Simultaneous 3D Printing of White and Transparent Gels for Medical Models. ECS Transactions, 2020, 98, 47-54.	0.5	2
132	(Invited) Design of Hydrogel Material and 3D-Printed Molding for Imitating the Tactile Textured Properties of Moon Jellyfish. ECS Transactions, 2020, 98, 39-45.	0.5	2
133	(Invited) Texture Control of 3D Printing: Effect of Internal Structure of 3D Printed Foods on their Fracture Process in Compression. ECS Transactions, 2020, 98, 59-63.	0.5	2
134	(Invited) Skin-Mimic Hydrogel Materials with Water-Perspiration Control for Soft Robots Developed by 3D Printing. ECS Transactions, 2020, 98, 23-27.	0.5	2
135	(Invited) 3D Printing of Soft-Matter Mono Pump in Infant Ventricular Assist Device (VAD) for Blood Pumping. ECS Transactions, 2020, 98, 31-38.	0.5	2
136	Applications for low frequency impedance analysis systems. , 2009, , .		1
137	Micropatternable, Electrically Conducting Polyaniline Photoresist Blends for MEMS Applications. ECS Transactions, 2013, 50, 525-535.	0.5	1
138	Hydrogel coating on soft polymeric substrates for microfluidic devices. Microsystem Technologies, 2018, 24, 4383-4388.	2.0	1
139	Fabrication and characterization of n-Si/SiON/metal gate structure for future MOS technology. Microsystem Technologies, 2018, 24, 4179-4185.	2.0	1
140	Separation of Motile Euglena Using Microchannel. ECS Transactions, 2018, 88, 37-43.	0.5	1
141	Development of Color Gel System. ECS Transactions, 2018, 88, 51-57.	0.5	1
142	Vanadium Redox Flow Batteries Fabricated by 3D Printing and Employing Recycled Vanadium Collected from Ammonia Slag. ECS Transactions, 2018, 88, 269-278.	0.5	1
143	Creation and Drive Evaluation of Jellyfish Type Autonomous Unmanned Submersible. ECS Transactions, 2018, 88, 45-49.	0.5	1
144	Preface – JES Focus Issue on Ubiquitous Sensors and Systems for IoT. Journal of the Electrochemical Society, 2018, 165, Y9-Y9.	2.9	1

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145	Behaviors of 3D-printed objects made of thermo-responsive hydrogels: motion in flow and molecule release ability. <i>Microsystem Technologies</i> , 2020, , 1.	2.0	1
146	Prefaceâ€”Sensor Reviews. <i>Journal of the Electrochemical Society</i> , 2020, 167, 030001.	2.9	1
147	Perspectiveâ€”Maintaining the Quality of Life in Depopulating Communities: Expanding Smart Sensing via a Novel Power Supply. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037564.	2.9	1
148	(Invited) Soft-Matter Robot That Communicates Humans By Contacting. <i>ECS Transactions</i> , 2020, 98, 65-69.	0.5	1
149	Highly Efficient Photocatalytic Hydrogen Production Performance for 2D/0D g-C ₃ N ₄ /Zn _{0.5} Cd _{0.5} S with g-C ₃ N ₄ as a Transport Medium for Photogenerated Charge Carriers. <i>Journal of the Electrochemical Society</i> , 0, , .	2.9	1
150	Commercial plexiglass mirrors and MEMS: new approach toward low cost polymer microsystems. , 2011,, .		0
151	Micro-Nano Systems in Health Care and Environmental Monitoring. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, Y9-Y9.	1.8	0
152	Carbon nanoparticle doped micro-patternable nano-composites for wearable sensing applications (Conference Presentation). , 2017,, .		0
153	Poly ionic liquid-based nano composites for smart electro-mechanical devices. <i>Proceedings of SPIE</i> , 2017,, .	0.8	0
154	Special Issue on 3rd International Conference on Smart Systems Engineering (SmaSys 2015). <i>Microsystem Technologies</i> , 2017, 23, 1131-1131.	2.0	0
155	3D printing in social education: Eki-Fab and student PBL. , 2017,, .		0
156	Development of low-cost open source 3D gel printer "RepRap SWIM-ER". , 2017,, .		0
157	Spin-coated single walled carbon nanotubes confirms pâ€”n junction diode behavior. <i>Microsystem Technologies</i> , 2018, 24, 4211-4215.	2.0	0
158	Development of Soft Ion Gel Based Touch Sensor. <i>ECS Transactions</i> , 2018, 88, 59-67.	0.5	0
159	Development of Hydrogel Fatigue Sensor. <i>ECS Transactions</i> , 2018, 88, 69-73.	0.5	0
160	Conductive Shape Memory Gels for Sensing Application. <i>ECS Transactions</i> , 2018, 85, 1433-1439.	0.5	0
161	Special issue on 4th International Conference on Smart Systems Engineering (SmaSys 2016). <i>Microsystem Technologies</i> , 2018, 24, 595-595.	2.0	0
162	Prefaceâ€”JES Focus Issue on 4D Materials and Systems. <i>Journal of the Electrochemical Society</i> , 2019, 166, Y11-Y11.	2.9	0

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163	4D Printing and Soft-Matter Robotics for Smart Soft-Manufacturing Solutions. Journal of the Robotics Society of Japan, 2021, 39, 302-305.	0.1	0
164	Development of Cu/F-MWCNT/ZnO Based Active Layer for Long Term Soil Urea Measurements. ECS Meeting Abstracts, 2021, MA2021-01, 1329-1329.	0.0	0
165	F- MWCNT/ ZnO Nanocomposites for Real-Time Detection of Ammonium Level in Paddy Field. ECS Meeting Abstracts, 2021, MA2021-01, 1330-1330.	0.0	0
166	Development of high-strength gel dosimeter made by 3D gel printer. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, J0470304.	0.0	0
167	Development of high-strength gel dosimeter made by 3D gel printer. , 2018, , .		0
168	Development of double network gel ring and evaluation of friction properties. , 2018, , .		0
169	Development of multi-material 3D printer. , 2018, , .		0
170	3D printing of foods. , 2018, , .		0
171	Ionic liquid in 3D printing (Conference Presentation). , 2018, , .		0
172	SnO2 nanowires for Electrochemical Detection of Riboflavin. ECS Meeting Abstracts, 2020, MA2020-01, 2086-2086.	0.0	0
173	3D Printable Vapochromic Sensing Materials. ECS Meeting Abstracts, 2020, MA2020-01, 2305-2305.	0.0	0
174	ZnO Nanorods Based Miniature Sensor Networks for Continuous Monitoring of Soil pH in Smart Agriculture. ECS Meeting Abstracts, 2020, MA2020-01, 2217-2217.	0.0	0
175	Assimilation of Interdigitated Electrodes (IDEs) with ZnO Nanorods (NRs) for Potassium Measurement Application. ECS Meeting Abstracts, 2020, MA2020-01, 2218-2218.	0.0	0
176	Electrical Conductivity and Linear Rheology of Multi-Walled Carbon Nanotube/Acrylonitrile Butadiene Styrene Polymer Nanocomposites Prepared By Melt Mixing and Solution Casting. ECS Meeting Abstracts, 2020, MA2020-01, 2281-2281.	0.0	0
177	Electrical Conductivity of Multiwalled Carbon Nanotube/Acrylonitrile Butadiene Styrene Polymer Nanocomposites prepared by Melt Mixing: Comparison of Twin Screw Extrusion and Batch Mixing. ECS Meeting Abstracts, 2020, MA2020-01, 2456-2456.	0.0	0
178	Electrochemical Detection of Analytes in Fluids. ECS Meeting Abstracts, 2020, MA2020-01, 2102-2102.	0.0	0
179	Gold Nanoparticles; Synthesis, Characterization and Comparative Studies of Their Antimicrobial Activities. ECS Meeting Abstracts, 2021, MA2021-02, 1616-1616.	0.0	0
180	Design of Gel Fiber Turnover for Self Cleaning in Soft Robotics. ECS Meeting Abstracts, 2021, MA2021-02, 1571-1571.	0.0	0

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181	Gel Deformation Sensor with 3D Printed Microchannels. ECS Meeting Abstracts, 2021, MA2021-02, 1574-1574.	0.0	0
182	Solving Power and Control Using Wireless Transmission Systems for Hard to Access Electrochemical Sensors. ECS Meeting Abstracts, 2021, MA2021-02, 1588-1588.	0.0	0
183	Novel Soft Materials with Nonlinear Mechanical Response. ECS Meeting Abstracts, 2021, MA2021-02, 1591-1591.	0.0	0
184	(Invited) Material Development and Equipment Improvement for 3D Gel Printing Using a Commercially-Available Stereolithography Printer. ECS Transactions, 2020, 98, 93-100.	0.5	0
185	(Invited) 3D Printing of Soft-Matter Mono Pump in Infant Ventricular Assist Device (VAD) for Blood Pumping. ECS Meeting Abstracts, 2020, MA2020-02, 3698-3698.	0.0	0
186	(Invited) Material Development and Equipment Improvement for 3D Gel Printing Using a Commercially-Available Stereolithography Printer. ECS Meeting Abstracts, 2020, MA2020-02, 3714-3714.	0.0	0
187	(Invited) The Simultaneous 3D Printing of White and Transparent Gels for Medical Models. ECS Meeting Abstracts, 2020, MA2020-02, 3702-3702.	0.0	0
188	(Invited) Fabrication of Polymer Gels with Double Network Using Multi-Material 2/3D Printing. ECS Meeting Abstracts, 2020, MA2020-02, 3707-3707.	0.0	0
189	(Invited) Skin-Mimic Hydrogel Materials with Water-Perspiration Control for Soft Robots Developed by 3D Printing. ECS Meeting Abstracts, 2020, MA2020-02, 3695-3695.	0.0	0
190	(Invited) Formation of Liposomes Containing Pre-Gel Solution and 3D-Printing Applications by Droplet-Shooting Method. ECS Meeting Abstracts, 2020, MA2020-02, 3710-3710.	0.0	0
191	Percolation in Multi-Walled Carbon Nanotube/Acrylonitrile Butadiene Styrene Polymer Nanocomposites Prepared By Melt Mixing and Solution Casting: Electrical Conductivity and Linear Rheology. ECS Meeting Abstracts, 2020, MA2020-02, 3720-3720.	0.0	0
192	(Invited) Scanning Microscopic Light Scattering with Machine Learning for Quality Assurance of 3D-Printed Hydrogels. ECS Meeting Abstracts, 2020, MA2020-02, 3696-3696.	0.0	0
193	(Invited) Low-cost 3D Gel Printer as Soft and Wet Industrial Materials Easy Realizer Developed by Virtue of RepRap Open Source Project. ECS Meeting Abstracts, 2020, MA2020-02, 3694-3694.	0.0	0
194	(Invited) 3D Printing and Wireless Power Transfer Systems for Soft Robotics Applications. ECS Meeting Abstracts, 2020, MA2020-02, 3703-3703.	0.0	0
195	Development of Novel Soft Materials with Mechanical Anisotropy using 3D Printed Lattice Structures and Application for Soft Robots. ECS Meeting Abstracts, 2021, MA2021-02, 1576-1576.	0.0	0
196	Investigations on the effect of NH_4Cl flux on the structural and optical properties of $\text{CdSiO}_3\text{:Eu}^{3+}$ nanophosphor. Materials Research Innovations, 2022, 26, 437-445.	2.3	0
197	(Invited) Texture Control of 3D Printing: Effect of Internal Structure of 3D Printed Foods on their Fracture Process in Compression. ECS Meeting Abstracts, 2020, MA2020-02, 3705-3705.	0.0	0
198	(Invited) Soft-Matter Robot That Communicates Humans By Contacting. ECS Meeting Abstracts, 2020, MA2020-02, 3706-3706.	0.0	0

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199	Review on Biosensors: Fundamentals, Classifications, Characteristics, Simulations, and Potential Applications. ECS Transactions, 2022, 107, 13005-13029.	0.5	0
200	Study the effect of Zn ²⁺ co-doping on the structural and optical properties of CdSiO ₃ :Eu ³⁺ phosphor. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	0