Hyun-Chan Kim

List of Publications by Year
in descending order

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471	11,120	36303	48315
papers	citations	51 h-index	88 g-index

479	479	479	10442
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transparent and Flexible Photon Sieve Made with Cellulose Nanofiber by Micro-Nano Structure Molding. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 1165-1175.	4.9	2
2	Recent progress in bioâ€based eugenol resins: From synthetic strategies to structural properties and coating applications. Journal of Applied Polymer Science, 2022, 139, 51532.	2.6	15
3	Cover Image, Volume 139, Issue 2. Journal of Applied Polymer Science, 2022, 139, 51068.	2.6	0
4	High-performance Esterified-Poly (vinyl alcohol)-Citric acid-Lignin resin and its application to Wet-spun nanocellulose Filament-Reinforced polymer composite. Composites Part A: Applied Science and Manufacturing, 2022, 153, 106735.	7.6	19
5	Modulation of interfacial interactions toward strong and tough cellulose nanofiber-based transparent thin films with antifogging feature. Carbohydrate Polymers, 2022, 278, 118974.	10.2	13
6	Electric field-assisted wet spinning to fabricate strong, tough, and continuous nanocellulose long fibers. Cellulose, 2022, 29, 3499-3511.	4.9	8
7	Molecular dynamics study on cellulose nanofiber (CNF) alignment under the influence of external electric fields. , 2022, , .		0
8	Three-Dimensional Printing of Highly Crosslinked and Concentrated Nanocellulose for Environmentally Friendly Structural Applications. ACS Applied Nano Materials, 2022, 5, 5680-5687.	5.0	8
9	Development, characterization, and properties of vanillin-based epoxy resins for natural fiber composites. , 2022, , .		0
10	Esterified lignin-based resin for cellulose-long-filament reinforced polymer composites. , 2022, , .		0
11	Fabrication and characterization of nanocomposite based on aramid nanofibers. , 2022, , .		0
12	A study in bio-nanocomposite based on polycaprolactone reinforced by cellulose nanocrystal. , 2022, , .		0
13	High Content Nanocellulose 3Dâ€Printed and Esterified Structures with Strong Interfacial Adhesion, High Mechanical Properties, and Shape Fidelity. Advanced Materials Interfaces, 2022, 9, .	3.7	14
14	Molecular Dynamics Study of Cellulose Nanofiber Alignment under an Electric Field. Polymers, 2022, 14, 1925.	4.5	2
15	3D printing of nanocellulose structures infused Epofix resin with improved mechanical properties. , 2022, , .		0
16	Effect of Bleaching and Hot-Pressing Conditions on Mechanical Properties of Compressed Wood. Polymers, 2022, 14, 2901.	4.5	3
17	High-Strength, Multifunctional, and Long Nanocellulose Hybrid Fibers Coated with Esterified Poly(vinyl alcohol)â€“Citric Acidâ€“Lignin Resin. ACS Sustainable Chemistry and Engineering, 2022, 10, 10024-10033.	6.7	8
18	Nanocellulose-based paper actuators. , 2021, , 163-183.		3

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19	Refractive Index Change of Cellulose Nanocrystal-Based Electroactive Polyurethane by an Electric Field. Frontiers in Bioengineering and Biotechnology, 2021, 9, 606008.	4.1	1
20	Polydopamineâ€“cellulose nanofiber composite for flexible electrode material. Smart Materials and Structures, 2021, 30, 035025.	3.5	8
21	Structural and mechanical properties of friction stir welded Al2O3 and SiC reinforced Al 7075 alloys. Journal of Mechanical Science and Technology, 2021, 35, 1437-1444.	1.5	5
22	Cellulose Nanofiber-Based Nanocomposite Films Reinforced with Zinc Oxide Nanorods and Grapefruit Seed Extract. Nanomaterials, 2021, 11, 877.	4.1	57
23	Recent Research Progress on Lignin-Derived Resins for Natural Fiber Composite Applications. Polymers, 2021, 13, 1162.	4.5	22
24	Environment-Friendly Zinc Oxide Nanorods-Grown Cellulose Nanofiber Nanocomposite and Its Electromechanical and UV Sensing Behaviors. Nanomaterials, 2021, 11, 1419.	4.1	5
25	Aligned cellulose nanofiber composite made with electrospinning of cellulose nanofiber - Polyvinyl alcohol and its vibration energy harvesting. Composites Science and Technology, 2021, 209, 108795.	7.8	31
26	High-strength cellulose nanofiber/graphene oxide hybrid filament made by continuous processing and its humidity monitoring. Scientific Reports, 2021, 11, 13611.	3.3	17
27	All-biobased transparent-wood: A new approach and its environmental-friendly packaging application. Carbohydrate Polymers, 2021, 264, 118012.	10.2	32
28	Nanocellulose Bulk Material Prepared by Steam Treatment and Hot Press Molding: Material Processing and Machining Test. Crystals, 2021, 11, 853.	2.2	1
29	Tannic-Acid-Cross-Linked and TiO2-Nanoparticle-Reinforced Chitosan-Based Nanocomposite Film. Polymers, 2021, 13, 228.	4.5	56
30	Effect of Embedment of MWCNTs for Enhancement of Physical and Mechanical Performance of Medium Density Fiberboard. Nanomaterials, 2021, 11, 29.	4.1	9
31	Production of Micro- and Nanofibrillated Cellulose through an Aqueous Counter Collision System Followed by Ultrasound: Effect of Mechanical Pretreatments. Journal of Natural Fibers, 2020, 17, 1099-1110.	3.1	7
32	Esterified PVAâ€lignin resin by maleic acid applicable for natural fiber reinforced composites. Journal of Applied Polymer Science, 2020, 137, 48836.	2.6	23
33	A novel approach of developing sustainable cellulose coating for self-cleaning-healing fabric. Progress in Organic Coatings, 2020, 140, 105500.	3.9	23
34	Large amplification of triboelectric property by allicin to develop high performance cellulosic triboelectric nanogenerator. Chemical Engineering Journal, 2020, 385, 123723.	12.7	86
35	Green nanocomposite made with chitin and bamboo nanofibers and its mechanical, thermal and biodegradable properties for food packaging. International Journal of Biological Macromolecules, 2020, 144, 491-499.	7.5	44
36	Preparation and characterization of synthetic melanin-like nanoparticles reinforced chitosan nanocomposite films. Carbohydrate Polymers, 2020, 231, 115729.	10.2	101

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37	Simple centrifugal fractionation to reduce the size distribution of cellulose nanofibers. Scientific Reports, 2020, 10, 11744.	3.3	13
38	Structural and Electrochemical Analysis of Decarburized Graphene Electrodes for Supercapacitor Applications. Crystals, 2020, 10, 1043.	2.2	9
39	Chitosan Nanofiber and Cellulose Nanofiber Blended Composite Applicable for Active Food Packaging. Nanomaterials, 2020, 10, 1752.	4.1	34
40	Nanoporous Sodium Carboxymethyl Cellulose-g-poly (Sodium Acrylate)/FeCl3 Hydrogel Beads: Synthesis and Characterization. Gels, 2020, 6, 49.	4.5	42
41	Preparation of Cellulose Nanocrystal-Reinforced Physical Hydrogels for Actuator Application. Crystals, 2020, 10, 969.	2.2	12
42	Alignment Effect on the Piezoelectric Properties of Ultrathin Cellulose Nanofiber Films. ACS Applied Bio Materials, 2020, 3, 4329-4334.	4.6	25
43	Effect of Process Orientation on the Mechanical Behavior and Piezoelectricity of Electroactive Paper. Materials, 2020, 13, 204.	2.9	4
44	Steered Pull Simulation to Determine Nanomechanical Properties of Cellulose Nanofiber. Materials, 2020, 13, 710.	2.9	20
45	Flexible Magnetic Polymer Composite Substrate with Ba1.5Sr1.5Z Hexaferrite Particles of VHF/Low UHF Patch Antennas for UAVs and Medical Implant Devices. Materials, 2020, 13, 1021.	2.9	3
46	Polystyrene nanocomposites reinforced with phenyl isocyanate-treated cellulose nanofibers. Functional Composites and Structures, 2020, 2, 015002.	3.4	12
47	Incorporation of melanin nanoparticles improves UV-shielding, mechanical and antioxidant properties of cellulose nanofiber based nanocomposite films. Materials Today Communications, 2020, 24, 100984.	1.9	59
48	Recent developments in polymers/polymer nanocomposites for additive manufacturing. Progress in Materials Science, 2020, 111, 100638.	32.8	299
49	Adhesion properties of poly(ethylene oxide)-lignin blend for nanocellulose composites. Composites Part B: Engineering, 2019, 156, 43-50.	12.0	32
50	A G-Fresnel Optical Device and Image Processing Based Miniature Spectrometer for Mechanoluminescence Sensor Applications. Sensors, 2019, 19, 3528.	3.8	8
51	Morphology correlated investigation on mechanical and dielectric properties of plasticized poly vinyl chloride/MWCNT nanocomposites. Functional Composites and Structures, 2019, 1, 035004.	3.4	7
52	Swelling Behavior of Polyacrylamideâ€“Cellulose Nanocrystal Hydrogels: Swelling Kinetics, Temperature, and pH Effects. Materials, 2019, 12, 2080.	2.9	80
53	Review of Soft Actuator Materials. International Journal of Precision Engineering and Manufacturing, 2019, 20, 2221-2241.	2.2	122
54	Synergistic effect of polydopamineâ€“polyethylenimine copolymer coating on graphene oxide for EVA nanocomposites and high-performance triboelectric nanogenerators. Nanoscale Advances, 2019, 1, 2444-2453.	4.6	19

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55	Cross-linking of cellulose nanofiber films with glutaraldehyde for improved mechanical properties. Materials Letters, 2019, 250, 99-102.	2.6	56
56	Strong and tough long cellulose fibers made by aligning cellulose nanofibers under magnetic and electric fields. Cellulose, 2019, 26, 5821-5829.	4.9	48
57	Fabrication and electrical properties of regenerated cellulose-loaded exfoliated graphene nanoplatelet composites. Carbon Letters, 2019, 29, 115-122.	5.9	4
58	Effect of Wet Spinning and Stretching to Enhance Mechanical Properties of Cellulose Nanofiber Filament. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 567-575.	4.9	60
59	Preliminary operational aspects of microwave-powered airship drone. International Journal of Micro Air Vehicles, 2019, 11, 175682931986136.	1.3	11
60	Green Nanocomposites Made With Polyvinyl Alcohol And Cellulose Nanofibers Isolated From Recycled Paper. Journal of Renewable Materials, 2019, 7, 621-629.	2.2	3
61	Molecular dynamic simulation of cellulose nanofiber to determine its nano-mechanical properties. , 2019, , .		0
62	Feasibility of renewable bulk materials processing with nanocellulose. , 2019, , .		0
63	Polydopamine-nanocellulose nanocomposites: physical and electrical properties for biomedical electrodes. , 2019, , .		0
64	Novel superhydrophobic cellulose coating and its multifunctional applications. , 2019, , .		1
65	Feasibility of PVA-lignin as resin for nanocellulose future composites. , 2019, , .		0
66	Electrospinning of cellulose nanofiber and poly(vinyl alcohol) blend: experiment and simulation. , 2019, , .		0
67	Fabrication of nanocellulose-based long and strong fiber via aligning processes of cellulose nanofibers. , 2019, , .		0
68	Thin film formation of cellulose nanofiber and its physical properties. , 2019, , .		0
69	Morphology correlated free volume studies of multi-walled carbon nanotube plasticized poly (vinyl) Tj ETQq1 1 0.784314 rgBT /Overlo	3.8	18
70	Cellulose nanofibers isolated by TEMPO-oxidation and aqueous counter collision methods. Carbohydrate Polymers, 2018, 191, 65-70.	10.2	82
71	Preparation of antibacterial temperatureâ€sensitive silverâ€nanocomposite hydrogels from Nâ€isopropylacrylamide with green tea. Journal of Applied Polymer Science, 2018, 135, 45739.	2.6	10
72	Synthesis, characterization, and antibacterial property of eco-friendly Ag/cellulose nanocomposite film. International Journal of Polymeric Materials and Polymeric Biomaterials, 2018, 67, 420-426.	3.4	14

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73	Rheology Design and Experimental Test of Roll-to-Roll Process for Electroactive Cellulose Film. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1377-1384.	2.2	5
74	Review of Cellulose Smart Material: Biomass Conversion Process and Progress on Cellulose-Based Electroactive Paper. Journal of Renewable Materials, 2018, 6, 1-25.	2.2	29
75	Electroactive Hydrogels Made with Polyvinyl Alcohol/Cellulose Nanocrystals. Materials, 2018, 11, 1615.	2.9	53
76	Elastic moduli of cellulose nanofibers isolated from various cellulose resources by using aqueous counter collision. Cellulose, 2018, 25, 4261-4268.	4.9	32
77	Poly(vinyl alcohol)â€“lignin blended resin for celluloseâ€based composites. Journal of Applied Polymer Science, 2018, 135, 46655.	2.6	23
78	Soft piezoelectric polymer of poly[di(ethylene glycol) adipate] plasticized poly vinyl chloride and its strain sensing. Materials Letters, 2018, 227, 276-280.	2.6	15
79	High-k dielectric percolative nanocomposites based on multiwalled carbon nanotubes and polyvinyl chloride. Journal of Materials Chemistry C, 2018, 6, 8152-8159.	5.5	19
80	One-step nanocellulose coating converts tissue paper into an efficient separation membrane. Cellulose, 2018, 25, 4871-4886.	4.9	51
81	Fabrication and characterization of cellulose nanofiber/graphene oxide blended fibers. , 2018, , .		1
82	Alignment of cellulose nanofibers by high-DC magnetic field. , 2018, , .		0
83	Cellulose nanocrystal based transparent electroactive polyurethane for active lens application. , 2018, , .		0
84	Properties of micro-nanofibrillated-chitin/bamboo-cellulose nanofiber composite. , 2018, , .		0
85	Atomistic molecular dynamics study to investigate thermal response of cellulose nanofibrils using GROMACS. , 2018, , .		1
86	Young's moduli of cellulose nanofibers measured by atomic force microscopy. , 2018, , .		0
87	Fabrication and characteristics of cellulose nanofiber films. , 2018, , .		0
88	Improvement of Interface Diffusion in Cu thin films using SiN/CoWB Passivation Layer. Journal of the Korean Society for Precision Engineering, 2018, 35, 1163-1168.	0.2	0
89	Analytical and experimental investigation of partially covered piezoelectric cantilever energy harvester. International Journal of Precision Engineering and Manufacturing, 2017, 18, 415-424.	2.2	15
90	Mechanical and electrical properties of calcinated tea-based cellulose composite films. Proceedings of SPIE, 2017, , .	0.8	0

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91	Fabrication and characterization of cellulose nanocrystal based transparent electroactive polyurethane. Smart Materials and Structures, 2017, 26, 085012.	3.5	10
92	Frequencyâ€selective surfaceâ€based chipless passive RFID sensor for detecting damage location. Structural Control and Health Monitoring, 2017, 24, e2028.	4.0	12
93	Calcinated tea and cellulose composite films and its dielectric and lead adsorption properties. Carbohydrate Polymers, 2017, 171, 183-192.	10.2	36
94	Feasibility study of cellulose nanofiber alignment by high DC magnetic field. , 2017, , .		1
95	Cellulose/graphene oxide composite for electrode materials of flexible energy devices. , 2017, , .		2
96	Optical and mechanical properties of cellulose nanopaper structures. Proceedings of SPIE, 2017, , .	0.8	1
97	A novel approach for fabricating highly tunable and fluffy bioinspired 3D poly(vinyl alcohol) (PVA) fiber scaffolds. Nanoscale, 2017, 9, 7081-7093.	5.6	46
98	Green all-cellulose nanocomposites made with cellulose nanofibers reinforced in dissolved cellulose matrix without heat treatment. Cellulose, 2017, 24, 3301-3311.	4.9	16
99	Al-doped cellulose ZnO hybrid nanocomposite. Materials Research Express, 2017, 4, 045001.	1.6	0
100	Porous cellulose/graphene oxide nanocomposite as flexible and renewable electrode material for supercapacitor. Synthetic Metals, 2017, 223, 94-100.	3.9	66
101	Performance improvement of miniaturized ZnO nanowire accelerometer fabricated by refresh hydrothermal synthesis. Royal Society Open Science, 2017, 4, 170557.	2.4	10
102	Perspective and potential of smart optical materials. Smart Materials and Structures, 2017, 26, 093001.	3.5	26
103	Transparent and semi-interpenetrating network P(vinyl alcohol)- P(Acrylic acid) hydrogels: pH responsive and electroactive application. International Journal of Smart and Nano Materials, 2017, 8, 80-94.	4.2	17
104	Miniaturized accelerometer made with ZnO nanowires. , 2017, , .		1
105	Thermal stress in flexible interdigital transducers with anisotropic electroactive cellulose substrates. Journal Physics D: Applied Physics, 2017, 50, 505304.	2.8	0
106	Parameter identification of partially covered piezoelectric cantilever power scavenger based on the coupled distributed parameter solution. International Journal of Smart and Nano Materials, 2017, 8, 110-124.	4.2	27
107	Flexible cellulose and ZnO hybrid nanocomposite and its UV sensing characteristics. Science and Technology of Advanced Materials, 2017, 18, 437-446.	6.1	40
108	Preparation and characterization of hydrogels from polyvinyl alcohol and cellulose and their electroactive behavior. Soft Materials, 2017, 15, 64-72.	1.7	50

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109	Cellulose long fibers fabricated from cellulose nanofibers and its strong and tough characteristics. Scientific Reports, 2017, 7, 17683.	3.3	120
110	Fabrication Method Study of ZnO Nanocoated Cellulose Film and Its Piezoelectric Property. Materials, 2017, 10, 611.	2.9	9
111	Optical and Electro-Active Properties of Polyacrylamide/CNC Composite Hydrogels. Journal of the Korean Society for Precision Engineering, 2017, 34, 575-580.	0.2	6
112	Recent Progress on Cellulose-Based Electro-Active Paper, Its Hybrid Nanocomposites and Applications. Sensors, 2016, 16, 1172.	3.8	59
113	Fabrication of a Miniaturized ZnO Nanowire Accelerometer and Its Performance Tests. Sensors, 2016, 16, 1499.	3.8	15
114	5â€Fluorouracil encapsulated magnetic nanohydrogels for drugâ€delivery applications. Journal of Applied Polymer Science, 2016, 133, .	2.6	37
115	Poly(acrylic acid)-Poly(vinyl alcohol) hydrogels for reconfigurable lens actuators. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 375-379.	4.9	30
116	Renewable smart materials. Smart Materials and Structures, 2016, 25, 073001.	3.5	43
117	Enhanced electromechanical behavior of cellulose film by zinc oxide nanocoating and its vibration energy harvesting. Acta Materialia, 2016, 114, 1-6.	7.9	36
118	Fabrication and finite element analysis of vibrating parallel film actuator made with cellulose acetate for potential haptic application. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2720-2727.	2.1	2
119	Cellulose/polyvinyl alcohol-based hydrogels for reconfigurable lens. , 2016, , .		0
120	Feasibility of transparent flexible ultrasonic haptic actuator. Proceedings of SPIE, 2016, , .	0.8	1
121	Cellulose nanocrystal and poly[di(ethylene glycol) adipate] blend for tunable lens. Proceedings of SPIE, 2016, , .	0.8	0
122	Flexible NO2 sensors from renewable cellulose nanocrystals/iron oxide composites. Sensors and Actuators B: Chemical, 2016, 233, 633-638.	7.8	94
123	Synthesis and characterization of cellulose nanocrystal/graphene oxide blended films. Proceedings of SPIE, 2016, , .	0.8	0
124	Review of state-of-the-art sensor applications using mechanoluminescence microparticles. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1237-1247.	2.2	39
125	UV response of cellulose ZnO hybrid nanocomposite. Proceedings of SPIE, 2016, , .	0.8	0
126	Feasibility study of ZnO nanowire made accelerometer. Proceedings of SPIE, 2016, , .	0.8	0

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127	Ultrasonic wave propagation of flexible piezoelectric polymer for tactile actuator: simulation and experiment. Smart Materials and Structures, 2016, 25, 115043.	3.5	11
128	Electroactive and Optically Adaptive Bionanocomposite for Reconfigurable Microlens. Journal of Physical Chemistry B, 2016, 120, 4699-4705.	2.6	19
129	Cellulose nanocrystal/graphene oxide composite film as humidity sensor. Sensors and Actuators A: Physical, 2016, 247, 221-226.	4.1	105
130	Simulation study of a high power density rectenna array for biomedical implantable devices. Proceedings of SPIE, 2016, , .	0.8	0
131	Flexible and transparent strain sensor made with silver nanowireâ€“coated cellulose. Journal of Intelligent Material Systems and Structures, 2016, 27, 1011-1018.	2.5	32
132	Preface for the special issue of ISGMA 2014. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1227-1227.	2.2	0
133	Characteristic of Hybrid Cellulose-Amino Functionalized POSS-Silica Nanocomposite and Antimicrobial Activity. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	10
134	Simulation of a coplanar microstrip dipole rectenna. International Journal of Applied Electromagnetics and Mechanics, 2015, 49, 483-490.	0.6	0
135	Enhanced electromechanical behaviors of cellulose ZnO hybrid nanocomposites. Proceedings of SPIE, 2015, , .	0.8	0
136	Reduced graphene oxide filled cellulose films for flexible temperature sensor application. Synthetic Metals, 2015, 206, 154-161.	3.9	127
137	Finite element analysis of vibration-driven electro-active paper energy harvester with experimental verification. Advances in Mechanical Engineering, 2015, 7, 168781401557123.	1.6	1
138	Experimental study of vibrational energy harvesting using Electro-Active paper. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1187-1193.	2.2	7
139	Synthesis and characterization of iron oxide/cellulose nanocomposite film. International Journal of Biological Macromolecules, 2015, 74, 142-149.	7.5	35
140	Designing flexible energy and memory storage materials using cellulose modified graphene oxide nanocomposites. Physical Chemistry Chemical Physics, 2015, 17, 5923-5931.	2.8	116
141	The effects of width reduction on the damping of a cantilever beam and its application in increasing the harvesting power of piezoelectric energy harvester. Smart Materials and Structures, 2015, 24, 045006.	3.5	16
142	Synthesis and characterization of iron oxide-cellulose nanocomposite films. Proceedings of SPIE, 2015, , .	0.8	0
143	Array haptic actuator for flight simulator. Proceedings of SPIE, 2015, , .	0.8	0
144	Simulation and experimental verification of flexible cellulose acetate haptic array actuator. Proceedings of SPIE, 2015, , .	0.8	1

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145	The effects of width reduction on cantilever type piezoelectric energy harvesters. , 2015, , .		0
146	Review of radio wave for power transmission in medical applications with safety. Proceedings of SPIE, 2015, , .	0.8	0
147	Transparent and flexible haptic actuator based on cellulose acetate stacked membranes. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1479-1485.	2.2	13
148	Cellulose/graphene nanocomposite as multifunctional electronic and solvent sensor material. Materials Letters, 2015, 159, 20-23.	2.6	92
149	Cellulose/PDMS hybrid material for actuating lens. Proceedings of SPIE, 2015, , .	0.8	4
150	Flexible cellulose acetate/graphene blueprints for vibrotactile actuator. RSC Advances, 2015, 5, 34432-34438.	3.6	56
151	Cellulose electro-active paper fabricated by facile solvent exchange pretreatment and its physical and electromechanical properties. Cellulose, 2015, 22, 927-933.	4.9	12
152	A tactile sensor made of graphene-cellulose nanocomposite. Proceedings of SPIE, 2015, , .	0.8	3
153	Cellulose nanocrystals, nanofibers, and their composites as renewable smart materials. , 2015, , .		0
154	Graphene oxideâ€“gellan gumâ€“sodium alginate nanocomposites: synthesis, characterization, and mechanical behavior. Composite Interfaces, 2015, 22, 249-263.	2.3	16
155	Review of nanocellulose for sustainable future materials. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 197-213.	4.9	373
156	Miniaturized 3 Ã— 3 array film vibrotactile actuator made with cellulose acetate for virtual reality simulators. Smart Materials and Structures, 2015, 24, 055018.	3.5	4
157	Preparation and characterization of Cellulose-ZnO nanolayer film by blending method. Macromolecular Research, 2015, 23, 814-818.	2.4	13
158	Designing pH-responsive and dielectric hydrogels from cellulose nanocrystals. Journal of Chemical Sciences, 2015, 127, 1119-1125.	1.5	27
159	Characterization of Electro-Active Paper Vibration Sensor by Impact Testing and Random Excitation. International Journal of Applied Mechanics, 2015, 07, 1550065.	2.2	7
160	Transparent and Flexible Cellulose Nanocrystal/Reduced Graphene Oxide Film for Proximity Sensing. Small, 2015, 11, 994-1002.	10.0	172
161	Multi Functional and Smart Graphene Filled Polymers as Piezoelectrics and Actuators. , 2015, , 67-90.		6
162	Titanium Dioxide Sol-gel Schottky Diodes and Effect of Titanium Dioxide Nanoparticle. Journal of Electrical Engineering and Technology, 2015, 10, 2343-2347.	2.0	1

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163	Fabrication and Characterization of Array Tactile Actuator Based on Cellulose Acetate. Journal of the Korean Society for Precision Engineering, 2015, 32, 743-748.	0.2	2
164	Fabrication of Cellulose ZnO Hybrid Nanocomposite and Its Strain Sensing Behavior. Materials, 2014, 7, 7000-7009.	2.9	34
165	Possibility of Cellulose-Based Electro-Active Paper Energy Scavenging Transducer. Journal of Nanoscience and Nanotechnology, 2014, 14, 7458-7462.	0.9	14
166	Electro-optic Effect in Polydimethylsiloxane-Cellulose Nanocrystal Composite for Reconfigurable Lens. , 2014, , .		0
167	Cellulose Nanocrystals and Nanofibers for Smart Optics Materials. , 2014, , .		2
168	Paper like cellulose-ZnO hybrid nanocomposite and its photoelectrical behavior. Proceedings of SPIE, 2014, , .	0.8	0
169	Cellulose based soft gel like actuator for reconfigurable lens array. Proceedings of SPIE, 2014, , .	0.8	4
170	Experimental and numerical study of cellulose-based electro-active paper energy harvester. Proceedings of SPIE, 2014, , .	0.8	0
171	Strain sensor based on cellulose ZnO hybrid nanocomposite. , 2014, , .		0
172	Investigation of size effect on film type haptic actuator made with cellulose acetate. Smart Materials and Structures, 2014, 23, 045016.	3.5	6
173	Synthesis and characterization of graphene/cellulose nanocomposite. Proceedings of SPIE, 2014, , .	0.8	3
174	Transparent and flexible haptic array actuator made with cellulose acetate for tactile sensation. , 2014, , .		2
175	Film-type haptic actuator made with cellulose acetate layers. Journal of Intelligent Material Systems and Structures, 2014, 25, 1289-1294.	2.5	13
176	Electrode effects of a cellulose-based electro-active paper energy harvester. Smart Materials and Structures, 2014, 23, 074003.	3.5	13
177	Flexible piezoelectric vibration energy harvester using a trunk-shaped beam structure inspired by an electric fish fin. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1967-1971.	2.2	14
178	Disposable chemical sensors and biosensors made on cellulose paper. Nanotechnology, 2014, 25, 092001.	2.6	98
179	Cellulose Electro-Active Paper: From Discovery to Technology Applications. Frontiers in Materials, 2014, 1, .	2.4	8
180	Electromechanical Behavior of Green Cellulose-ZnO Hybrid Nanocomposite. Journal of Biobased Materials and Bioenergy, 2014, 8, 137-142.	0.3	9

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181	Detection of Urea and Rancidity of Milk Using Inter-Digitated Cellulose-Tin Oxide Hybrid Composite. Sensor Letters, 2014, 12, 39-43.	0.4	4
182	Inkjet Printing of Customized Silver Ink for Cellulose Electro Active Paper. Journal of the Korean Society for Precision Engineering, 2014, 31, 737-742.	0.2	0
183	Synthesis and characterization of conductive silver ink for electrode printing on cellulose film. Applied Physics A: Materials Science and Processing, 2013, 112, 411-418.	2.3	32
184	Hybrid composite thin films composed of tin oxide nanoparticles and cellulose. Smart Materials and Structures, 2013, 22, 075011.	3.5	9
185	A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. IEEE Sensors Journal, 2013, 13, 4157-4162.	4.7	35
186	Design, Fabrication, and Evaluation of Stepper Motors Based on the Piezoelectric Torsional Actuator. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1850-1854.	5.8	20
187	Remotely powered and controlled EAPap actuator by amplitude modulated microwaves. Smart Materials and Structures, 2013, 22, 017001.	3.5	7
188	Electromagnetic nanocomposite of bacterial cellulose using magnetite nanoclusters and polyaniline. Colloids and Surfaces B: Biointerfaces, 2013, 102, 238-242.	5.0	44
189	Frequency selective surface based passive wireless sensor for structural health monitoring. Smart Materials and Structures, 2013, 22, 025002.	3.5	41
190	Particle based conductive silver ink customized for ink jet printing on cellulose electro-active paper. , 2013, , .		1
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