Jung-Hwan Oh

List of Publications by Year
in descending order

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213 papers	9,920 citations	25034 57 h-index	45317 90 g-index
224 all docs	224 docs citations	224 times ranked	11487 citing authors

#	Article	IF	Citations
1	Design of multi-auxetic microstructures for sound absorbing applications. Advanced Composite Materials, 2023, 32, 225-236.	1.9	2
2	Collectively Exhaustive MXene and Graphene Oxide Multilayer for Suppressing Shuttling Effect in Flexible Lithium Sulfur Battery. Advanced Materials Technologies, 2022, 7, 2101025.	5.8	14
3	Electronically Conjugated Multifunctional Covalent Triazine Framework for Unprecedented CO₂ Selectivity and Highâ€Power Flexible Supercapacitor. Advanced Functional Materials, 2022, 32, 2107442.	14.9	24
4	Micro-structured porous electrolytes for highly responsive ionic soft actuators. Sensors and Actuators B: Chemical, 2022, 352, 131006.	7.8	14
5	Collectively Exhaustive Hybrid Triboelectric Nanogenerator Based on Flowâ€Induced Impactingâ€Sliding Cylinder for Ocean Energy Harvesting. Advanced Energy Materials, 2022, 12, 2103076.	19.5	21
6	Collectively Exhaustive Hybrid Triboelectric Nanogenerator Based on Flowâ€Induced Impactingâ€Sliding Cylinder for Ocean Energy Harvesting (Adv. Energy Mater. 3/2022). Advanced Energy Materials, 2022, 12, .	19.5	1
7	Robust separation of topological in-plane and out-of-plane waves in a phononic crystal. Communications Physics, 2022, 5, .	5.3	3
8	Elastic valley Hall edge wave in a hierarchical hexagonal lattice. Journal of Sound and Vibration, 2022, 526, 116817.	3.9	7
9	Fabrication and characterizations of electro-mechanical actuators based on fullerene-reinforced biocompatible polymer. Sensors and Actuators A: Physical, 2022, 339, 113510.	4.1	9
10	Coolingâ€Accelerated Nanowireâ€Nitinol Hybrid Muscle for Versatile Prosthetic Hand and Biomimetic Retractable Claw. Advanced Functional Materials, 2022, 32, .	14.9	13
11	Antagonistically Functionalized Diatom Biosilica for Bioâ€Triboelectric Generators. Small, 2022, 18, e2107638.	10.0	11
12	Spherical Micro/Nano Hierarchical Structures for Energy and Water Harvesting Devices. Small Methods, 2022, 6, e2200248.	8.6	13
13	Coolingâ€Accelerated Nanowireâ€Nitinol Hybrid Muscle for Versatile Prosthetic Hand and Biomimetic Retractable Claw (Adv. Funct. Mater. 18/2022). Advanced Functional Materials, 2022, 32, .	14.9	0
14	Longâ€Lasting and Steady Triboelectric Energy Harvesting from Lowâ€Frequency Irregular Motions Using Escapement Mechanism. Advanced Energy Materials, 2021, 11, 2002929.	19.5	27
15	Stretchable and self-healable catechol-chitosan-diatom hydrogel for triboelectric generator and self-powered tremor sensor targeting at Parkinson disease. Nano Energy, 2021, 82, 105705.	16.0	97
16	Boosting Oxygen Evolution Reaction on Metalloceneâ€based Transition Metal Sulfides Integrated with Nâ€doped Carbon Nanostructures. ChemSusChem, 2021, 14, 5004-5020.	6.8	12
17	Diatom Bio-Silica and Cellulose Nanofibril for Bio-Triboelectric Nanogenerators and Self-Powered Breath Monitoring Masks. ACS Applied Materials & Interfaces, 2021, 13, 219-232.	8.0	68
18	Electroâ€Active and Photoâ€Active Vanadium Oxide Nanowire Thermoâ€Hygroscopic Actuators for Kirigami Popâ€up. Advanced Science, 2021, 8, e2102064.	11.2	10

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19	Mutually exclusive ytterbium and nitrogen co-doping of mesoporous titania-carbon for self-cleanable and sustainable triboelectric nanogenerators. Nano Energy, 2021, 90, 106615.	16.0	10
20	Sonochemical self-growth of functionalized titanium carbide nanorods on Ti3C2 nanosheets for high capacity anode for lithium-ion batteries. Composites Part B: Engineering, 2020, 181, 107583.	12.0	41
21	Flow-induced snap-through triboelectric nanogenerator. Nano Energy, 2020, 68, 104379.	16.0	38
22	Rose-like MoS2 nanostructures with a large interlayer spacing of â^¼9.9ÂÃ... and exfoliated WS2 nanosheets supported on carbon nanotubes for hydrogen evolution reaction. Carbon, 2020, 158, 216-225.	10.3	41
23	Phenolâ€Derived Carbon Sealant Inspired by a Coalification Process. Angewandte Chemie, 2020, 132, 3892-3898.	2.0	4
24	Phenolâ€Derived Carbon Sealant Inspired by a Coalification Process. Angewandte Chemie - International Edition, 2020, 59, 3864-3870.	13.8	15
25	Electroionic Artificial Muscles: Metalâ€“Organic Frameworkâ€Derived Graphitic Nanoribbons Anchored on Graphene for Electroionic Artificial Muscles (Adv. Funct. Mater. 29/2020). Advanced Functional Materials, 2020, 30, 2070195.	14.9	4
26	Sulfurâ€•and Nitrogenâ€Rich Porous Ï€â€Conjugated COFs as Stable Electrode Materials for Electroâ€Ionic Soft Actuators. Advanced Functional Materials, 2020, 30, 2003863.	14.9	30
27	CTF-based soft touch actuator for playing electronic piano. Nature Communications, 2020, 11, 5358.	12.8	54
28	A dual-ion accepting vanadium carbide nanowire cathode integrated with carbon cloths for high cycling stability. Nanoscale, 2020, 12, 20868-20874.	5.6	10
29	Ti3C2Tx MXene for wearable energy devices: Supercapacitors and triboelectric nanogenerators. APL Materials, 2020, 8, .	5.1	30
30	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. Nano Energy, 2020, 75, 104904.	16.0	105
31	Stimuliâ€Responsive MXeneâ€Based Actuators. Advanced Functional Materials, 2020, 30, 1909504.	14.9	126
32	Ferroceneâ€Incorporated Cobalt Sulfide Nanoarchitecture for Superior Oxygen Evolution Reaction. Small, 2020, 16, e2001665.	10.0	67
33	Nest-inspired nanosponge-Cu woven mesh hybrid for ultrastable and high-power triboelectric nanogenerator. Nano Energy, 2020, 71, 104561.	16.0	29
34	Auxetic graphene oxide-porous foam for acoustic wave and shock energy dissipation. Composites Part B: Engineering, 2020, 186, 107817.	12.0	69
35	Intertwined Nanosponge Solid-State Polymer Electrolyte for Rollable and Foldable Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 11657-11668.	8.0	22
36	Basic design of a biomimetic underwater soft robot with switchable swimming modes and programmable artificial muscles. Smart Materials and Structures, 2020, 29, 035038.	3.5	25

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37	Metalâ€“Organic Frameworkâ€Derived Graphitic Nanoribbons Anchored on Graphene for Electroionic Artificial Muscles. Advanced Functional Materials, 2020, 30, 1910326.	14.9	27
38	MXene artificial muscles based on ionically cross-linked Ti ₃ C ₂ T _x electrode for kinetic soft robotics. Science Robotics, 2019, 4, .	17.6	169
39	Crumpled Quaternary Nanoarchitecture of Sulfur-Doped Nickel Cobalt Selenide Directly Grown on Carbon Cloth for Making Stronger Ionic Soft Actuators. ACS Applied Materials & Interfaces, 2019, 11, 40451-40460.	8.0	21
40	Graphene Mesh for Selfâ€Sensing Ionic Soft Actuator Inspired from Mechanoreceptors in Human Body. Advanced Science, 2019, 6, 1901711.	11.2	29
41	Mutually Exclusive pâ€Type and nâ€Type Hybrid Electrode of MoS₂ and Graphene for Artificial Soft Touch Fingers. Advanced Functional Materials, 2019, 29, 1905454.	14.9	30
42	Treefrog Toe Padâ€Inspired Micropatterning for Highâ€Power Triboelectric Nanogenerator. Advanced Functional Materials, 2019, 29, 1901638.	14.9	56
43	Anticarcinogenic activity of blue fluorescent hexagonal boron nitride quantum dots: as an effective enhancer for DNA cleavage activity of anticancer drug doxorubicin. Materials Today Bio, 2019, 1, 100001.	5.5	13
44	Self-aligned and hierarchically porous graphene-polyurethane foams for acoustic wave absorption. Carbon, 2019, 147, 510-518.	10.3	45
45	A Pair of NiCo₂O₄ and V₂O₅ Nanowires Directly Grown on Carbon Fabric for Highly Bendable Lithiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1900477.	19.5	61
46	Collectively Exhaustive Electrodes Based on Covalent Organic Framework and Antagonistic Coâ€Doping for Electroactive Ionic Artificial Muscles. Advanced Functional Materials, 2019, 29, 1900161.	14.9	56
47	Integrated dielectric-electrode layer for triboelectric nanogenerator based on Cu nanowire-Mesh hybrid electrode. Nano Energy, 2019, 59, 120-128.	16.0	37
48	A robotic multiple-shape-memory ionic polymerâ€“metal composite (IPMC) actuator: modeling approach. Smart Materials and Structures, 2019, 28, 015009.	3.5	16
49	Electroactive Artificial Muscles Based on Functionally Antagonistic Coreâ€“Shell Polymer Electrolyte Derived from PSâ€bâ€PSS Block Copolymer. Advanced Science, 2019, 6, 1801196.	11.2	29
50	Actuators: Functionally Antagonistic Hybrid Electrode with Hollow Tubular Graphene Mesh and Nitrogenâ€Doped Crumpled Graphene for Highâ€Performance Ionic Soft Actuators (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10	14.9	2
51	Functionally Antagonistic Hybrid Electrode with Hollow Tubular Graphene Mesh and Nitrogenâ€Doped Crumpled Graphene for Highâ€Performance Ionic Soft Actuators. Advanced Functional Materials, 2018, 28, 1705714.	14.9	51
52	Motion Control of Piezoelectric Tripod Platform via Feedforward Hysteresis Compensation. Advanced Materials Technologies, 2018, 3, 1800298.	5.8	5
53	Piezoelectric Actuators: Motion Control of Piezoelectric Tripod Platform via Feedforward Hysteresis Compensation (Adv. Mater. Technol. 12/2018). Advanced Materials Technologies, 2018, 3, 1870049.	5.8	0
54	Two-Dimensional rGO-MoS2 Hybrid Additives for High-Performance Magnetorheological Fluid. Scientific Reports, 2018, 8, 12672.	3.3	17

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55	Highly Bendable Ionic Soft Actuator Based on Nitrogenâ€Enriched 3D Heteroâ€Nanostructure Electrode. Advanced Functional Materials, 2018, 28, 1802464.	14.9	51
56	An Electroactive and Transparent Haptic Interface Utilizing Soft Elastomer Actuators with Silver Nanowire Electrodes. Small, 2018, 14, e1801603.	10.0	34
57	Directionally Antagonistic Graphene Oxide-Polyurethane Hybrid Aerogel as a Sound Absorber. ACS Applied Materials & Interfaces, 2018, 10, 22650-22660.	8.0	81
58	Load-bearing supercapacitor based on bicontinuous PEO-b-P(S-co-DVB) structural electrolyte integrated with conductive nanowire-carbon fiber electrodes. Carbon, 2018, 139, 10-20.	10.3	34
59	Surface morphology control of elastomeric actuator and their application for haptic device. , 2018, , .		0
60	Microwaveâ€Accelerated Rapid, Chemical Oxidantâ€Free, Materialâ€Independent Surface Chemistry of Poly(dopamine). Small, 2017, 13, 1600443.	10.0	92
61	Bacterial Nanoâ€Cellulose Triboelectric Nanogenerator. Nano Energy, 2017, 33, 130-137.	16.0	214
62	A composite layer of atomic-layer-deposited Al2O3 and graphene for flexible moisture barrier. Carbon, 2017, 116, 553-561.	10.3	45
63	CNT branching of three-dimensional steam-activated graphene hybrid frameworks for excellent rate and cyclic capabilities to store lithium ions. Carbon, 2017, 116, 500-509.	10.3	27
64	Nanohole-structured, iron oxide-decorated and gelatin-functionalized graphene for high rate and high capacity Li-Ion anode. Carbon, 2017, 119, 355-364.	10.3	26
65	Self-assembly and morphological control of three-dimensional macroporous architectures built of two-dimensional materials. Nano Today, 2017, 14, 100-123.	11.9	69
66	Modified transfer path analysis considering transmissibility functions for accurate estimation of vibration source. Journal of Sound and Vibration, 2017, 398, 70-83.	3.9	18
67	Theoretical and experimental investigation of the shape memory properties of an ionic polymerâ€“metal composite. Smart Materials and Structures, 2017, 26, 045020.	3.5	4
68	Electroionic Antagonistic Muscles Based on Nitrogenâ€Doped Carbons Derived from Poly(Triazineâ€Triptycene). Advanced Science, 2017, 4, 1700410.	11.2	30
69	Sulfur and nitrogen co-doped holey graphene aerogel for structurally resilient solid-state supercapacitors under high compressions. Journal of Materials Chemistry A, 2017, 5, 17253-17266.	10.3	68
70	Surface Modification of Anisotropic Dielectric Elastomer Actuators with Uni- and Bi-axially Wrinkled Carbon Electrodes for Wettability Control. Scientific Reports, 2017, 7, 6091.	3.3	26
71	Soft but Powerful Artificial Muscles Based on 3D Grapheneâ€“CNTâ€“Ni Heteronanostructures. Small, 2017, 13, 1701314.	10.0	60
72	Multilayered graphene-carbon nanotube-iron oxide three-dimensional heterostructure for flexible electromagnetic interference shielding film. Carbon, 2017, 111, 248-257.	10.3	203

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73	Seamlessly Conductive 3D Nanoarchitecture of Coreâ€“Shell Niâ€Co Nanowire Network for Highly Efficient Oxygen Evolution. Advanced Energy Materials, 2017, 7, 1601492.	19.5	260
74	Artificial Muscles: Electroionic Antagonistic Muscles Based on Nitrogenâ€Doped Carbons Derived from Poly(Triazineâ€Triptycene) (Adv. Sci. 12/2017). Advanced Science, 2017, 4, 1770062.	11.2	2
75	Wrinkled Grapheneâ€“AgNWs Hybrid Electrodes for Smart Window. Micromachines, 2017, 8, 43.	2.9	13
76	Recent Progress in Multifunctional Graphene Aerogels. Frontiers in Materials, 2016, 3, .	2.4	28
77	Silk Nanofiberâ€Networked Bioâ€Triboelectric Generator: Silk Bioâ€TEG. Advanced Energy Materials, 2016, 6, 1502329.	19.5	222
78	An Electroactive, Tunable, and Frequency Selective Surface Utilizing Highly Stretchable Dielectric Elastomer Actuators Based on Functionally Antagonistic Aperture Control. Small, 2016, 12, 1840-1846.	10.0	25
79	Piezoelectric thin films: an integrated review of transducers and energy harvesting. Smart Materials and Structures, 2016, 25, 053002.	3.5	163
80	IPMCs as EAPs: Materials. , 2016, , 151-170.		0
81	Defect engineering route to boron nitride quantum dots and edge-hydroxylated functionalization for bio-imaging. RSC Advances, 2016, 6, 73939-73946.	3.6	34
82	IPMCs as EAPs: Materials. , 2016, , 1-20.		0
83	Compact piezoelectric tripod manipulator based on a reverse bridge-type amplification mechanism. Smart Materials and Structures, 2016, 25, 095028.	3.5	17
84	Reply to â€œComment on â€˜Nanohole-Structured and Palladium-Embedded 3D Porous Graphene for Ultrahigh Hydrogen Storage and CO Oxidation Multifunctionalitiesâ€™â€• ACS Nano, 2016, 10, 9057-9060.	14.6	0
85	Graphene-coated meshes for electroactive flow control devices utilizing two antagonistic functions of repellency and permeability. Nature Communications, 2016, 7, 13345.	12.8	36
86	A multiple-shape memory polymer-metal composite actuator capable of programmable control, creating complex 3D motion of bending, twisting, and oscillation. Scientific Reports, 2016, 6, 24462.	3.3	98
87	Sulfur and Nitrogen Coâ€Doped Graphene Electrodes for Highâ€Performance Ionic Artificial Muscles. Advanced Materials, 2016, 28, 1610-1615.	21.0	177
88	Bendable and flexible supercapacitor based on polypyrrole-coated bacterial cellulose core-shell composite network. Composites Science and Technology, 2016, 128, 33-40.	7.8	105
89	A soft biomolecule actuator based on a highly functionalized bacterial cellulose nano-fiber network with carboxylic acid groups. Soft Matter, 2016, 12, 246-254.	2.7	67
90	Hybrid Carbon Nanomaterials for Electromagnetic Interference Shielding. Composites Research, 2016, 29, 138-144.	0.1	1

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91	Film Properties of Al Thin Films Depending on Process Parameters and Film Thickness Grown by Sputter. Korean Journal of Materials Research, 2016, 26, 438-443.	0.2	1
92	Nanohole-Structured and Palladium-Embedded 3D Porous Graphene for Ultrahigh Hydrogen Storage and CO Oxidation Multifunctionalities. ACS Nano, 2015, 9, 7343-7351.	14.6	122
93	Green luminescence of quasi-molecular level in graphene quantum dots fabricated by microwave bottom-up strategy. , 2015, , .		0
94	Design of a Fuel-Cell-Powered Catamaran-Type Unmanned Surface Vehicle. IEEE Journal of Oceanic Engineering, 2015, 40, 388-396.	3.8	31
95	Defect-engineered mesoporous ternary nanoarchitecture of zinc-cobalt-oxide/nitrogen-doped graphene as anode material in lithium ion batteries. Carbon, 2015, 94, 455-463.	10.3	38
96	Highâ€Fidelity Bioelectronic Muscular Actuator Based on Grapheneâ€Mediated and TEMPOâ€Oxidized Bacterial Cellulose. Advanced Functional Materials, 2015, 25, 3560-3570.	14.9	107
97	Microwave-Assisted Synthesis of Boron and Nitrogen co-doped Reduced Graphene Oxide for the Protection of Electromagnetic Radiation in Ku-Band. ACS Applied Materials & Interfaces, 2015, 7, 19831-19842.	8.0	145
98	Low voltage actuator using ionic polymer metal nanocomposites based on a miscible polymer blend. Journal of Materials Chemistry A, 2015, 3, 19718-19727.	10.3	22
99	Tunable acoustic waveguide based on vibro-acoustic metamaterials with shunted piezoelectric unit cells. Smart Materials and Structures, 2015, 24, 105018.	3.5	12
100	Omnidirectional two-dimensional acoustic cloak by axisymmetric cylindrical lattices. Wave Motion, 2015, 54, 157-169.	2.0	7
101	Accurate Dynamic Modeling of Helical Ionic Polymer-Metal Composite Actuator Based on Intrinsic Equations. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1680-1688.	5.8	3
102	Microwave bottom-up route for size-tunable and switchable photoluminescent graphene quantum dots using acetylacetone: New platform for enzyme-free detection of hydrogen peroxide. Carbon, 2015, 81, 514-524.	10.3	93
103	Nano for Biomimetics and Biomaterials. Journal of Nanomaterials, 2014, 2014, 1-1.	2.7	0
104	Novel electroactive PVA-TOCN actuator that is extremely sensitive to low electrical inputs. Smart Materials and Structures, 2014, 23, 074006.	3.5	23
105	Bioâ€Inspired Allâ€Organic Soft Actuator Based on a Ï€â€“Ï€ Stacked 3D Ionic Network Membrane and Ultraâ€Fast Solution Processing. Advanced Functional Materials, 2014, 24, 6005-6015.	14.9	78
106	Linear-to-rotary motion converter using asymmetric compliant mechanics and single-crystal PMN-PT stack actuator. Journal of Intelligent Material Systems and Structures, 2014, 25, 2221-2227.	2.5	7
107	Far-infrared reduced graphene oxide as high performance electrodes for supercapacitors. Carbon, 2014, 75, 201-208.	10.3	32
108	Wettingâ€Transparent Graphene Films for Hydrophobic Waterâ€Harvesting Surfaces. Advanced Materials, 2014, 26, 5166-5172.	21.0	97

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109	Selected papers from the 7th International Conference on Biomimetics, Artificial Muscles and Nano-bio (BAMN2013). Smart Materials and Structures, 2014, 23, 070301.	3.5	0
110	Durable and Water-Floatable Ionic Polymer Actuator with Hydrophobic and Asymmetrically Laser-Scribed Reduced Graphene Oxide Paper Electrodes. ACS Nano, 2014, 8, 2986-2997.	14.6	199
111	Highly Conductive, Capacitive, Flexible and Soft Electrodes Based on a 3D Grapheneâ€“Nanotubeâ€“Palladium Hybrid and Conducting Polymer. Small, 2014, 10, 5023-5029.	10.0	12
112	Ionic liquid template assisted synthesis of porous nano-silica nails. RSC Advances, 2014, 4, 39978-39983.	3.6	10
113	Graphene Films: Wettingâ€Transparent Graphene Films for Hydrophobic Waterâ€Harvesting Surfaces (Adv.) Tj ETQq1 1 0.784314 rgBT	21.0	2
114	3D Networked Grapheneâ€Ferromagnetic Hybrids for Fast Shape Memory Polymers with Enhanced Mechanical Stiffness and Thermal Conductivity. Small, 2014, 10, 3880-3886.	10.0	72
115	Graphene-wrapped and cobalt oxide-intercalated hybrid for extremely durable super-capacitor with ultrahigh energy and power densities. Carbon, 2014, 79, 192-202.	10.3	166
116	A revisit to imperfect acoustic cloak of multi-layered shell structures considering sound speed and impedance matching. Journal of Sound and Vibration, 2014, 333, 4637-4652.	3.9	8
117	BIOINSPIRED ARTIFICIAL MUSCLES AND ROBOTS. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 443-474.	0.1	0
118	<I>A Special Section on</I> Nanotechnology for Biomimetics and Nano-Biomaterials. Journal of Nanoscience and Nanotechnology, 2014, 14, 7361-7362.	0.9	1
119	Bio-Inspired Bending Actuator for Controlling Conical Nose Shape Using Piezoelectric Patches. Journal of Nanoscience and Nanotechnology, 2014, 14, 7463-7468.	0.9	1
120	Bio-Inspired Dielectric Elastomer Actuator with AgNWs Coated on Carbon Black Electrode. Journal of Nanoscience and Nanotechnology, 2014, 14, 7483-7487.	0.9	8
121	Arsenic Removal from Contaminated Water Using Three-Dimensional Graphene-Carbon Nanotube-Iron Oxide Nanostructures. Environmental Science & Technology, 2013, 47, 130904083814004.	10.0	79
122	Microwave self-assembly of 3D graphene-carbon nanotube-nickel nanostructure for high capacity anode material in lithium ion battery. Carbon, 2013, 64, 527-536.	10.3	94
123	Synthesis and electrochemical performance characterization of Ce-doped Li 3 V 2 (PO 4) 3 /C as cathode materials for lithium-ion batteries. Journal of Power Sources, 2013, 243, 33-39.	7.8	74
124	Electroactive bio-composite actuators based on cellulose acetate nanofibers with specially chopped polyaniline nanoparticles through electrospinning. Composites Science and Technology, 2013, 87, 135-141.	7.8	55
125	Active Disturbance Rejection Control for Precise Position Tracking of Ionic Polymerâ€“Metal Composite Actuators. IEEE/ASME Transactions on Mechatronics, 2013, 18, 86-95.	5.8	63
126	Grapheneâ€“Nanotubeâ€“Iron Hierarchical Nanostructure as Lithium Ion Battery Anode. ACS Nano, 2013, 7, 4242-4251.	14.6	192

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127	An ionic liquid-assisted method for splitting carbon nanotubes to produce graphene nano-ribbons by microwave radiation. Carbon, 2013, 53, 391-398.	10.3	65
128	Recent advances in ionic polymerâ€“metal composite actuators and their modeling and applications. Progress in Polymer Science, 2013, 38, 1037-1066.	24.7	336
129	Dryâ€Type Artificial Muscles Based on Pendent Sulfonated Chitosan and Functionalized Graphene Oxide for Greatly Enhanced Ionic Interactions and Mechanical Stiffness. Advanced Functional Materials, 2013, 23, 6007-6018.	14.9	104
130	Electro-active hybrid actuators based on freeze-dried bacterial cellulose and PEDOT:PSS. Smart Materials and Structures, 2013, 22, 085026.	3.5	61
131	Pressure-dependent synthesis of high-quality few-layer graphene by plasma-enhanced arc discharge and their thermal stability. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	55
132	How does clamping pressure influence actuation performance of soft ionic polymerâ€“metal composites?. Smart Materials and Structures, 2013, 22, 025014.	3.5	13
133	Plasma Surface Modification of Graphene and Combination with Bacteria Cellulose. Korean Chemical Engineering Research, 2013, 51, 388-393.	0.2	3
134	Nonlinear dynamics of curved IPMC actuators undergoing electrically driven large deformations. International Journal of Smart and Nano Materials, 2012, 3, 214-225.	4.2	2
135	Defect-Engineered Three-Dimensional Grapheneâ€“Nanotubeâ€“Palladium Nanostructures with Ultrahigh Capacitance. ACS Nano, 2012, 6, 10562-10570.	14.6	141
136	Electromagnetic Synchronized Switch Damping for Vibration Control of Flexible Beams. IEEE/ASME Transactions on Mechatronics, 2012, 17, 1031-1038.	5.8	22
137	Effect of viscosity-inducing factors on oxygen transfer in production culture of bacterial cellulose. Korean Journal of Chemical Engineering, 2012, 29, 792-797.	2.7	20
138	Highly conducting multilayer films from graphene nanosheets by a spin self-assembly method. Journal of Materials Chemistry, 2011, 21, 5378.	6.7	24
139	A helical ionic polymerâ€“metal composite actuator for radius control of biomedical active stents. Smart Materials and Structures, 2011, 20, 035008.	3.5	30
140	Graphene Oxideâ€“Polyethylenimine Nanoconstruct as a Gene Delivery Vector and Bioimaging Tool. Bioconjugate Chemistry, 2011, 22, 2558-2567.	3.6	368
141	Fullerenol-Based Electroactive Artificial Muscles Utilizing Biocompatible Polyetherimide. ACS Nano, 2011, 5, 2248-2256.	14.6	84
142	Electrospun Fullerenol-Cellulose Biocompatible Actuators. Biomacromolecules, 2011, 12, 2048-2054.	5.4	59
143	Durability studies shed light on the design of novel self-healing artificial muscles by employing ionic network polymers. Journal of Controlled Release, 2011, 152, e229-e230.	9.9	4
144	Determination of the stoichiometry and critical oxygen tension in the production culture of bacterial cellulose using saccharified food wastes. Korean Journal of Chemical Engineering, 2011, 28, 2306-2311.	2.7	28

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145	Actuation of Electroâ€Active Artificial Muscle at Ultralow Frequency. Macromolecular Chemistry and Physics, 2011, 212, 635-642.	2.2	9
146	Wellâ€aligned Nanoâ€fiberous Membranes Based on Threeâ€pole Electrospinning with Channel Electrode. Macromolecular Rapid Communications, 2011, 32, 921-926.	3.9	17
147	Electroâ€active Polymer Actuator Based on Sulfonated Polyimide with Highly Conductive Silver Electrodes Via Selfâ€metallization. Macromolecular Rapid Communications, 2011, 32, 1583-1587.	3.9	23
148	Microwave extraction of graphene from carbon fibers. Carbon, 2011, 49, 222-226.	10.3	33
149	Microwave syntheses of graphene and graphene decorated with metal nanoparticles. Carbon, 2011, 49, 4449-4457.	10.3	59
150	Electro-active grapheneâ€“Nafion actuators. Carbon, 2011, 49, 1279-1289.	10.3	187
151	Sulfonated Poly(styrene-b-ethylene-co-butylene-b-styrene) and Fullerene Composites for Ionic Polymer Actuators. Journal of Nanoscience and Nanotechnology, 2010, 10, 3203-3206.	0.9	7
152	Snap-through dynamics of buckled IPMC actuator. Sensors and Actuators A: Physical, 2010, 158, 300-305.	4.1	29
153	A coagulation technique for purification of graphene sheets with grapheneâ€“reinforced PVA hydrogel as byproduct. Journal of Colloid and Interface Science, 2010, 348, 384-387.	9.4	42
154	Electro-active artificial muscle based on irradiation-crosslinked sulfonated poly(styrene-ran-ethylene). Sensors and Actuators B: Chemical, 2010, 145, 635-642.	7.8	30
155	Bacterial cellulose actuator with electrically driven bending deformation in hydrated condition. Sensors and Actuators B: Chemical, 2010, 146, 307-313.	7.8	88
156	Electroactive artificial muscle based on crosslinked PVA/SPTES. Sensors and Actuators B: Chemical, 2010, 150, 57-64.	7.8	43
157	Electric-stimuli-responsive bending actuator based on sulfonated polyetherimide. Sensors and Actuators B: Chemical, 2010, 151, 198-204.	7.8	69
158	Electro-active nano-composite actuator based on fullerene-reinforced Nafion. Composites Science and Technology, 2010, 70, 584-592.	7.8	85
159	Synthesis of graphene nano-sheets using eco-friendly chemicals and microwave radiation. Carbon, 2010, 48, 2953-2957.	10.3	101
160	Palladium-catalyzed Mizorokiâ€“Heck coupling reactions using sterically bulky phosphite ligand. Inorganic Chemistry Communication, 2010, 13, 1329-1331.	3.9	13
161	Electroâ€active polymer actuators employing sulfonated poly(styreneâ€ranâ€ethylene) as ionic membranes. Polymer International, 2010, 59, 305-312.	3.1	38
162	Electro-chemo-mechanical characteristics of fullerene-reinforced ionic polymerâ€“metal composite transducers. Smart Materials and Structures, 2010, 19, 075009.	3.5	24

#	Article	IF	Citations
163	Ligand-Free Palladium Catalytic System Supported by CNT and its Application to the Mizoroki Heck Reactions. Bulletin of the Korean Chemical Society, 2010, 31, 1735-1738.	1.9	10
164	Ligand-free Palladium-Catalyzed Mizoroki-Heck-type Reaction of Arylboronic Acids and Alkenes Using Silver Cation. Bulletin of the Korean Chemical Society, 2010, 31, 1789-1792.	1.9	5
165	Coil-based Electromagnetic Damper and Actuator for Vibration Suppression of Cantilever Beams. Journal of Intelligent Material Systems and Structures, 2009, 20, 2237-2247.	2.5	10
166	Snap-through dynamics of bi-stable IPMC actuator considering beam configuration. Proceedings of SPIE, 2009, , .	0.8	0
167	Suzuki-Miyaura Coupling Reactions Using Phosphite Ligands. Synthesis, 2009, 2009, 2073-2075.	2.3	2
168	Adaptive neuro-fuzzy control of ionic polymer metal composite actuators. Smart Materials and Structures, 2009, 18, 065016.	3.5	32
169	A current-flowing electromagnetic shunt damper for multi-mode vibration control of cantilever beams. Smart Materials and Structures, 2009, 18, 095036.	3.5	41
170	Growth of Spatial Dendrites in Bisphenol-A Polycarbonate Induced by Dioctyl Phthalate at High Pressure. Molecular Crystals and Liquid Crystals, 2009, 511, 327/[1797]-336/[1806].	0.9	3
171	Ultrasonic Active Fiber Sensor based on Pulse-echo Method. Journal of Intelligent Material Systems and Structures, 2009, 20, 1035-1043.	2.5	6
172	Vibration Suppression of Flexible Beam Using Electromagnetic Shunt Damper. IEEE Transactions on Magnetics, 2009, 45, 2758-2761.	2.1	39
173	Selective growth of platinum electrodes for MDOF IPMC actuators. Thin Solid Films, 2009, 517, 5288-5292.	1.8	38
174	Novel biomimetic actuator based on SPEEK and PVDF. Sensors and Actuators B: Chemical, 2009, 143, 357-364.	7.8	90
175	Thermal post-buckled behaviors of cylindrical composite shells with viscoelastic damping treatments. Journal of Sound and Vibration, 2009, 323, 93-111.	3.9	7
176	Nonlinear flutter of aerothermally buckled composite shells with damping treatments. Journal of Sound and Vibration, 2009, 324, 556-569.	3.9	28
177	Enhanced electromechanical performance of carbon nano-fiber reinforced sulfonated poly(styrene-b-[ethylene/butylene]-b-styrene) actuator. Composites Science and Technology, 2009, 69, 2098-2101.	7.8	40
178	Vibration characteristics and supersonic flutter of cylindrical composite panels with large thermoelastic deflections. Composite Structures, 2009, 90, 208-216.	5.8	22
179	A biomimetic jellyfish robot based on ionic polymer metal composite actuators. Smart Materials and Structures, 2009, 18, 085002.	3.5	259
180	Synthesis of Phosphinodiselenoic Acid Ester Derivatives and their Application in the Controlled Radical Polymerization of Styrene. Bulletin of the Korean Chemical Society, 2009, 30, 2129-2131.	1.9	13

#	Article	IF	Citations
181	A Biomimetic Actuator Based on an Ionic Networking Membrane of Poly(styreneâ€altâ€maleimide)â€incorporated Poly(vinylidene fluoride). Advanced Functional Materials, 2008, 18, 1290-1298.	14.9	126
182	Biomimetic Nano-composite Actuators Based on Carbon Nanotubes and Ionic Polymers. Journal of Intelligent Material Systems and Structures, 2008, 19, 305-311.	2.5	10
183	Fabrication and actuation of ionic polymer metal composites patterned by combining electroplating with electroless plating. Composites Part A: Applied Science and Manufacturing, 2008, 39, 588-596.	7.6	82
184	Electron microscopy of high pressure crystallised poly (p-phenylene sulfide). Plastics, Rubber and Composites, 2008, 37, 263-267.	2.0	2
185	Fabrication and actuation of electro-active polymer actuator based on PSMI-incorporated PVDF. Smart Materials and Structures, 2008, 17, 045002.	3.5	38
186	Fiber Sensor Based on Piezoelectric Ultrasonic Wave. Journal of Intelligent Material Systems and Structures, 2008, 19, 299-304.	2.5	4
187	Damping Characteristics of Cylindrical Laminates with Viscoelastic Layer Considering Temperature- and Frequency-Dependence. Journal of Thermal Stresses, 2008, 32, 1-20.	2.0	10
188	Mechanical model and analysis of ionic polymer metal composites biomimetic actuators. , 2008, , .		1
189	Novel Nanocomposite Actuator Based on Sulfonated Poly(styrene-b-ethylene-co-butylene-b-styrene) Polymer. Journal of Nanoscience and Nanotechnology, 2007, 7, 3740-3743.	0.9	32
190	Melt Crystallization and Morphology of Poly(p-phenylene sulfide) under High Pressure. Macromolecular Chemistry and Physics, 2007, 208, 405-414.	2.2	18
191	Dynamic characteristics of cylindrical hybrid panels containing viscoelastic layer based on layerwise mechanics. Composites Part B: Engineering, 2007, 38, 159-171.	12.0	36
192	Resonant frequency and instability of multi-layered micro-resonators with initial imperfection subject to piezoelectric loads. Microelectronic Engineering, 2007, 84, 1388-1392.	2.4	7
193	Micro/nano-heater integrated cantilevers for micro/nano-lithography applications. Microelectronic Engineering, 2007, 84, 1041-1044.	2.4	11
194	Morphology investigation on highâ€pressure crystallized bisphenolâ€A polycarbonate/dioctyl phthalate blends. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2715-2728.	2.1	11
195	Biomimetic electro-active polymer based on sulfonated poly (styrene-b-ethylene-co-butylene-b-styrene). Materials Letters, 2007, 61, 5117-5120.	2.6	77
196	P-58 Static Deformation Analyses of Composite Rotor Blades Based On Fluid-Structure Coupling. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _P-58-1_-_P-58-5_.	0.0	0
197	Novel nanocomposite actuator based on sulfonated poly(styrene-b-ethylene-co-butylene-b-styrene) polymer. Journal of Nanoscience and Nanotechnology, 2007, 7, 3740-3.	0.9	2
198	Supersonic flutter suppression of piezolaminated cylindrical panels based on multifield layerwise theory. Journal of Sound and Vibration, 2006, 291, 1186-1201.	3.9	32

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199	Aeroelastic characteristics of cylindrical hybrid composite panels with viscoelastic damping treatments. Journal of Sound and Vibration, 2006, 296, 99-116.	3.9	55
200	Piezoelectric suppression of thermoelastic snap-through in active piezolaminated curved shells. Smart Materials and Structures, 2006, 15, 1616-1626.	3.5	10
201	Dynamic Characteristics of Novel Ionic-Polymer-Metal-Composites. Key Engineering Materials, 2006, 321-323, 208-211.	0.4	3
202	Thermopiezoelastic nonlinear dynamics of active piezolaminated plates. Smart Materials and Structures, 2005, 14, 823-834.	3.5	23
203	Thermal post-buckling analysis of shape memory alloy hybrid composite shell panels. Smart Materials and Structures, 2004, 13, 1337-1344.	3.5	61
204	Non-linear static and dynamic instability of complete spherical shells using mixed finite element formulation. International Journal of Non-Linear Mechanics, 2003, 38, 923-934.	2.6	14
205	AEROTHERMOELASTIC PHENOMENA OF AEROSPACE AND COMPOSITE STRUCTURES. Journal of Thermal Stresses, 2003, 26, 525-546.	2.0	24
206	Dynamic Characteristics of Cylindrical Composite Panels with Co-cured and Constrained Viscoelastic Layers.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2002, 45, 16-25.	0.3	10
207	Thermal post-buckling behavior of patched laminated panels under uniform and non-uniform temperature distributions. Composite Structures, 2002, 55, 137-145.	5.8	13
208	Thermal snapping and vibration characteristics of cylindrical composite panels using layerwise theory. Composite Structures, 2001, 51, 49-61.	5.8	52
209	NON-LINEAR TRANSIENT RESPONSE OF FLUTTERING STIFFENED COMPOSITE PLATES SUBJECT TO THERMAL LOAD. Journal of Sound and Vibration, 2001, 245, 715-736.	3.9	18
210	Thermopiezoelastic Snapping of Piezolaminated Plates Using Layerwise Nonlinear Finite Elements. AIAA Journal, 2001, 39, 1188-1197.	2.6	62
211	Thermopiezoelastic snapping of piezolaminated plates using layerwise nonlinear finite elements. AIAA Journal, 2001, 39, 1188-1197.	2.6	4
212	POSTBUCKLING AND VIBRATION CHARACTERISTICS OF PIEZOLAMINATED COMPOSITE PLATE SUBJECT TO THERMO-PIEZOELECTRIC LOADS. Journal of Sound and Vibration, 2000, 233, 19-40.	3.9	129
213	Supersonic Flutter Analysis of Stiffened Laminated Plates Subject to Thermal Load. Journal of Sound and Vibration, 1999, 224, 49-67.	3.9	44