# Hyowon Lee

#### List of Publications by Citations

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100 2,045 24 42 g-index

110 2,424 5.1 5.25 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
100	Identification and quantitation of lipid C=C location isomers: A shotgun lipidomics approach enabled by photochemical reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2573-8	11.5	201
99	Three-dimensional gradients of voltage during development of the nervous system as invisible coordinates for the establishment of embryonic pattern. <i>Developmental Dynamics</i> , <b>1995</b> , 202, 101-14	2.9	125
98	Immediate recovery from spinal cord injury through molecular repair of nerve membranes with polyethylene glycol. <i>FASEB Journal</i> , <b>2000</b> , 14, 27-35	0.9	109
97	Acute repair of crushed guinea pig spinal cord by polyethylene glycol. <i>Journal of Neurophysiology</i> , <b>1999</b> , 81, 2406-14	3.2	103
96	Conduction deficits and membrane disruption of spinal cord axons as a function of magnitude and rate of strain. <i>Journal of Neurophysiology</i> , <b>2006</b> , 95, 3384-90	3.2	86
95	Acrolein-mediated injury in nervous system trauma and diseases. <i>Molecular Nutrition and Food Research</i> , <b>2011</b> , 55, 1320-31	5.9	78
94	Glutamate excitotoxicity inflicts paranodal myelin splitting and retraction. <i>PLoS ONE</i> , <b>2009</b> , 4, e6705	3.7	77
93	Pathological correlations between traumatic brain injury and chronic neurodegenerative diseases. Translational Neurodegeneration, <b>2017</b> , 6, 20	10.3	64
92	Chitosan nanoparticle-based neuronal membrane sealing and neuroprotection following acrolein-induced cell injury. <i>Journal of Biological Engineering</i> , <b>2010</b> , 4, 2	6.3	59
91	Uncoupling histogenesis from morphogenesis in the vertebrate embryo by collapse of the transneural tube potential. <i>Developmental Dynamics</i> , <b>1995</b> , 203, 456-67	2.9	59
90	Effects of 4-aminopyridine on stretched mammalian spinal cord: the role of potassium channels in axonal conduction. <i>Journal of Neurophysiology</i> , <b>2003</b> , 90, 2334-40	3.2	46
89	Facile fabrication of flexible glutamate biosensor using direct writing of platinum nanoparticle-based nanocomposite ink. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 131, 257-266	11.8	41
88	The morphology of supragranular pyramidal neurons in the human insular cortex: a quantitative Golgi study. <i>Cerebral Cortex</i> , <b>2009</b> , 19, 2131-44	5.1	41
87	Rapid In Situ Profiling of Lipid C?C Location Isomers in Tissue Using Ambient Mass Spectrometry with Photochemical Reactions. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5612-5619	7.8	39
86	Mitigation of sensory and motor deficits by acrolein scavenger phenelzine in a rat model of spinal cord contusive injury. <i>Journal of Neurochemistry</i> , <b>2016</b> , 138, 328-38	6	39
85	Novel potassium channel blocker, 4-AP-3-MeOH, inhibits fast potassium channels and restores axonal conduction in injured guinea pig spinal cord white matter. <i>Journal of Neurophysiology</i> , <b>2010</b> , 103, 469-78	3.2	38
84	Polyethylene glycol repairs membrane damage and enhances functional recovery: a tissue engineering approach to spinal cord injury. <i>Neuroscience Bulletin</i> , <b>2013</b> , 29, 460-6	4.3	37

## (2020-2015)

Real-time sample analysis using a sampling probe and miniature mass spectrometer. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 8867-73	7.8	35
Endogenous ionic currents and voltages in amphibian embryos. <i>The Journal of Experimental Zoology</i> , <b>1994</b> , 268, 307-322		33
Acrolein contributes to TRPA1 up-regulation in peripheral and central sensory hypersensitivity following spinal cord injury. <i>Journal of Neurochemistry</i> , <b>2015</b> , 135, 987-97	6	30
Point-of-Care Tissue Analysis Using Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1157-	1 <del>1</del> .63	29
Structural and biochemical abnormalities in the absence of acute deficits in mild primary blast-induced head trauma. <i>Journal of Neurosurgery</i> , <b>2016</b> , 124, 675-86	3.2	28
Acrolein as a novel therapeutic target for motor and sensory deficits in spinal cord injury. <i>Neural Regeneration Research</i> , <b>2014</b> , 9, 677-83	4.5	28
Potassium channel blockers as an effective treatment to restore impulse conduction in injured axons. <i>Neuroscience Bulletin</i> , <b>2011</b> , 27, 36-44	4.3	25
Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. <i>Chemosensors</i> , <b>2020</b> , 8, 66	4	24
Nonlinear damping for vibration isolation of microsystems using shear thickening fluid. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 251902	3.4	23
The dynamics of axolemmal disruption in guinea pig spinal cord following compression. <i>Journal of Neurocytology</i> , <b>2004</b> , 33, 203-11		23
Differences in postinjury auditory system pathophysiology after mild blast and nonblast acute acoustic trauma. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 782-799	3.2	22
Electrochemical Evaluations of Fractal Microelectrodes for Energy Efficient Neurostimulation. <i>Scientific Reports</i> , <b>2018</b> , 8, 4375	4.9	21
Cognition based bTBI mechanistic criteria; a tool for preventive and therapeutic innovations. <i>Scientific Reports</i> , <b>2018</b> , 8, 10273	4.9	21
Development of Microfabricated Magnetic Actuators for Removing Cellular Occlusion. <i>Journal of Micromechanics and Microengineering</i> , <b>2011</b> , 21, 54006	2	21
Acrolein-mediated neuronal cell death and alpha-synuclein aggregation: Implications for ParkinsonB disease. <i>Molecular and Cellular Neurosciences</i> , <b>2018</b> , 88, 70-82	4.8	20
Dimercaprol is an acrolein scavenger that mitigates acrolein-mediated PC-12 cells toxicity and reduces acrolein in rat following spinal cord injury. <i>Journal of Neurochemistry</i> , <b>2017</b> , 141, 708-720	6	18
Acrolein Contributes to the Neuropathic Pain and Neuron Damage after Ischemic-Reperfusion Spinal Cord Injury. <i>Neuroscience</i> , <b>2018</b> , 384, 120-130	3.9	17
Clioquinol improves motor and non-motor deficits in MPTP-induced monkey model of Parkinsonß disease through AKT/mTOR pathway. <i>Aging</i> , <b>2020</b> , 12, 9515-9533	5.6	15
	Endogenous ionic currents and voltages in amphibian embryos. The Journal of Experimental Zoology, 1994, 268, 307-322.  Acrolein contributes to TRPA1 up-regulation in peripheral and central sensory hypersensitivity following spinal cord injury. Journal of Neurochemistry, 2015, 135, 987-97.  Point-of-Care Tissue Analysis Using Miniature Mass Spectrometer. Analytical Chemistry, 2019, 91, 1157-25.  Structural and biochemical abnormalities in the absence of acute deficits in mild primary blast-induced head trauma. Journal of Neurosurgery, 2016, 124, 675-86.  Acrolein as a novel therapeutic target for motor and sensory deficits in spinal cord injury. Neural Regeneration Research, 2014, 9, 677-83.  Potassium channel blockers as an effective treatment to restore impulse conduction in injured axons. Neuroscience Bulletin, 2011, 27, 36-44.  Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. Chemosensors, 2020, 8, 66.  Nonlinear damping for vibration isolation of microsystems using shear thickening fluid. Applied Physics Letters, 2013, 102, 251902.  The dynamics of axolemmal disruption in guinea pig spinal cord following compression. Journal of Neurocytology, 2004, 33, 203-11.  Differences in postinjury auditory system pathophysiology after mild blast and nonblast acute acoustic trauma. Journal of Neurophysiology, 2017, 118, 782-799.  Electrochemical Evaluations of Fractal Microelectrodes for Energy Efficient Neurostimulation. Scientific Reports, 2018, 8, 4375.  Cognition based bTBI mechanistic criteria; a tool for preventive and therapeutic innovations. Scientific Reports, 2018, 8, 10273.  Development of Microfabricated Magnetic Actuators for Removing Cellular Occlusion. Journal of Micromechanics and Microengineering, 2011, 21, 54006.  Acrolein-mediated neuronal cell death ad alpha-synuclein aggregation: Implications for Parkinsonia disease. Molecular and Cellular Neurosciences, 2018, 88, 70-82.  Dimercaprol is an acrolein scavenger that mitigates acrolein-mediated PC-12 cells toxicity and	Endogenous ionic currents and voltages in amphibian embryos. The Journal of Experimental Zoology , 1994, 268, 307-322  Acrolein contributes to TRPA1 up-regulation in peripheral and central sensory hypersensitivity following spinal cord injury. Journal of Neurochemistry, 2015, 135, 987-97  Point-of-Care Tissue Analysis Using Miniature Mass Spectrometer. Analytical Chemistry, 2019, 91, 1157-1763  Structural and biochemical abnormalities in the absence of acute deficits in mild primary blast-induced head trauma. Journal of Neurosurgery, 2016, 124, 675-86  Acrolein as a novel therapeutic target for motor and sensory deficits in spinal cord injury. Neural Regeneration Research, 2014, 9, 677-83  Potassium channel blockers as an effective treatment to restore impulse conduction in injured axons. Neuroscience Bulletin, 2011, 27, 36-44  Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. Chemosensors, 2020, 8, 66  Nonlinear damping for vibration isolation of microsystems using shear thickening fluid. Applied Physics Letters, 2013, 102, 251902  34  The dynamics of axolemmal disruption in guinea pig spinal cord following compression. Journal of Neurophysiology, 2044, 33, 203-11  Differences in postinjury auditory system pathophysiology after mild blast and nonblast acute acoustic trauma. Journal of Neurophysiology, 2017, 118, 782-799  Electrochemical Evaluations of Fractal Microelectrodes for Energy Efficient Neurostimulation. Scientific Reports, 2018, 8, 4375  Cognition based bTBI mechanistic criteria; a tool for preventive and therapeutic innovations. Scientific Reports, 2018, 8, 10273  Development of Microfabricated Magnetic Actuators for Removing Cellular Occlusion. Journal of Micromechanics and Microengineering, 2011, 21, 54006  Acrolein-mediated neuronal cell death and alpha-synuclein aggregation: Implications for Parkinson® disease. Molecular and Cellular Neurosciences, 2018, 88, 70-82  Dimercaprol is an acrolein scavenger that mitigates acrolein-mediated PC-12 cells toxicity and redu

65	Printable Nonenzymatic Glucose Biosensors Using Carbon Nanotube-PtNP Nanocomposites Modified with AuRu for Improved Selectivity. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 5315-5	3 <b>2</b> 5	15
64	Electrical neurostimulation with imbalanced waveform mitigates dissolution of platinum electrodes. <i>Journal of Neural Engineering</i> , <b>2016</b> , 13, 054001	5	15
63	Unilateral microinjection of acrolein into thoracic spinal cord produces acute and chronic injury and functional deficits. <i>Neuroscience</i> , <b>2016</b> , 326, 84-94	3.9	14
62	Exogenous Acrolein intensifies sensory hypersensitivity after spinal cord injury in rat. <i>Journal of the Neurological Sciences</i> , <b>2017</b> , 379, 29-35	3.2	13
61	Zwitterionic Porous Conjugated Polymers as a Versatile Platform for Antibiofouling Implantable Bioelectronics. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 528-536	4.3	13
60	Public Regulatory Databases as a Source of Insight for Neuromodulation Devices Stimulation Parameters. <i>Neuromodulation</i> , <b>2018</b> , 21, 117-125	3.1	13
59	Towards smart self-clearing glaucoma drainage device. <i>Microsystems and Nanoengineering</i> , <b>2018</b> , 4, 35	7.7	13
58	Simple minimally-invasive automatic antidote delivery device (A2D2) towards closed-loop reversal of opioid overdose. <i>Journal of Controlled Release</i> , <b>2019</b> , 306, 130-137	11.7	12
57	Nanomedicine strategies for treatment of secondary spinal cord injury. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 923-38	7.3	12
56	Synergistic bactericidal activity between hyperosmotic stress and membrane-disrupting nanoemulsions. <i>Journal of Medical Microbiology</i> , <b>2013</b> , 62, 69-77	3.2	12
55	Mesenchymal Stem Cell-Derived Exosomes: Hope for Spinal Cord Injury Repair. <i>Stem Cells and Development</i> , <b>2020</b> , 29, 1467-1478	4.4	12
54	Acrolein-mediated alpha-synuclein pathology involvement in the early post-injury pathogenesis of mild blast-induced Parkinsonian neurodegeneration. <i>Molecular and Cellular Neurosciences</i> , <b>2019</b> , 98, 14	0 <del>-1</del> 184	11
53	Anti-biofouling implantable catheter using thin-film magnetic microactuators. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 1694-1704	8.5	11
52	Systemic Acrolein Elevations in Mice With Experimental Autoimmune Encephalomyelitis and Patients With Multiple Sclerosis. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 420	4.1	11
51	Glutamate Sensing inside the Mouse Brain with Perovskite Nickelate-Nafion Heterostructures. <i>ACS Applied Materials &amp; Discourse amp; Interfaces</i> , <b>2020</b> , 12, 24564-24574	9.5	10
50	Evaluation of magnetic resonance imaging issues for implantable microfabricated magnetic actuators. <i>Biomedical Microdevices</i> , <b>2014</b> , 16, 153-61	3.7	10
49	Acrolein-mediated conduction loss is partially restored by K+ channel blockers. <i>Journal of Neurophysiology</i> , <b>2016</b> , 115, 701-10	3.2	10
48	Mechanical Evaluation of Unobstructing Magnetic Microactuators for Implantable Ventricular Catheters. <i>Journal of Microelectromechanical Systems</i> , <b>2014</b> , 23, 795-802	2.5	9

## (2020-2021)

47	Rapid custom prototyping of soft poroelastic biosensor for simultaneous epicardial recording and imaging. <i>Nature Communications</i> , <b>2021</b> , 12, 3710	17.4	9
46	Peripheral Neuropathy and Hindlimb Paralysis in a Mouse Model of Adipocyte-Specific Knockout of Lkb1. <i>EBioMedicine</i> , <b>2017</b> , 24, 127-136	8.8	8
45	The Association of Iron and the Pathologies of Parkinson® Diseases in MPTP/MPP-Induced Neuronal Degeneration in Non-human Primates and in Cell Culture. <i>Frontiers in Aging Neuroscience</i> , <b>2019</b> , 11, 215	5.3	8
44	Toward an implantable functional electrical stimulation device to correct strabismus. <i>Journal of AAPOS</i> , <b>2009</b> , 13, 229-35.e1	1.3	8
43	One-Step Large-Scale Nanotexturing of Nonplanar PTFE Surfaces to Induce Bactericidal and Anti-inflammatory Properties. <i>ACS Applied Materials &amp; District Research</i> , 12, 26893-26904	9.5	7
42	Wearable Glucose Monitoring and Implantable Drug Delivery Systems for Diabetes Management. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100194	10.1	7
41	Parallel Evaluation of Two Potassium Channel Blockers in Restoring Conduction in Mechanical Spinal Cord Injury in Rat. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 1057-1068	5.4	7
40	Piezoresistor-Embedded Multifunctional Magnetic Microactuators for Implantable Self-Clearing Catheter. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 1373-1378	4	6
39	Mapping Lipid C=C Location Isomers in Organ Tissues by Coupling Photochemical Derivatization and Rapid Extractive Mass Spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 445, 11620	6-1762	06
38	Acute systemic accumulation of acrolein in mice by inhalation at a concentration similar to that in cigarette smoke. <i>Neuroscience Bulletin</i> , <b>2014</b> , 30, 1017-1024	4.3	6
37	Iron overload resulting from the chronic oral administration of ferric citrate induces parkinsonism phenotypes in middle-aged mice. <i>Aging</i> , <b>2019</b> , 11, 9846-9861	5.6	6
36	Current advances in neurotrauma research: diagnosis, neuroprotection, and neurorepair. <i>Neural Regeneration Research</i> , <b>2014</b> , 9, 1093-5	4.5	6
35	Simple Fabrication of Flexible Biosensor Arrays Using Direct Writing for Multianalyte Measurement from Human Astrocytes. <i>SLAS Technology</i> , <b>2020</b> , 25, 33-46	3	6
34	A model of acute compressive spinal cord injury with a minimally invasive balloon in goats. <i>Journal of the Neurological Sciences</i> , <b>2014</b> , 337, 97-103	3.2	5
33	Coupling the Patern (PB) Reaction With Mass Spectrometry to Study Unsaturated Fatty Acids in Mouse Model of Multiple Sclerosis. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 807	5	5
32	Structural disruption of the blood-brain barrier in repetitive primary blast injury. <i>Fluids and Barriers of the CNS</i> , <b>2021</b> , 18, 2	7	5
31	Graphene prevents neurostimulation-induced platinum dissolution in fractal microelectrodes. <i>2D Materials</i> , <b>2019</b> , 6, 035037	5.9	4
30	Fabrication and evaluation of activated carbon-Pt microparticle based glutamate biosensor. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 866,	4.1	4

29	Potassium channel blockers restore axonal conduction in CNS trauma and diseases. <i>Neural Regeneration Research</i> , <b>2016</b> , 11, 1226-7	4.5	4
28	High-Throughput Magnetic Actuation Platform for Evaluating the Effect of Mechanical Force on 3D Tumor Microenvironment. <i>Advanced Functional Materials</i> , <b>2021</b> , 31,	15.6	4
27	Nondermal irritating hyperosmotic nanoemulsions reduce treatment times in a contamination model of wound healing. <i>Wound Repair and Regeneration</i> , <b>2016</b> , 24, 669-78	3.6	3
26	Polyimide-based magnetic microactuators for biofouling removal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 5757-5760	0.9	3
25	Unobstructing magnetic microactuators for implantable catheters 2009,		2
24	Application of magnetically actuated self-clearing catheter for rapid in situ blood clot clearance in hemorrhagic stroke treatment <i>Nature Communications</i> , <b>2022</b> , 13, 520	17.4	2
23	Evidence of acrolein in synovial fluid of dogs with osteoarthritis as a potential inflammatory biomarker. <i>BMC Musculoskeletal Disorders</i> , <b>2021</b> , 22, 894	2.8	2
22	Acrolein scavenger dimercaprol offers neuroprotection in an animal model of Parkinsonß disease: implication of acrolein and TRPA1. <i>Translational Neurodegeneration</i> , <b>2021</b> , 10, 13	10.3	2
21	Whole body measurements using near-infrared spectroscopy in a rat spinal cord contusion injury model. <i>Journal of Spinal Cord Medicine</i> , <b>2021</b> , 1-13	1.9	2
20	Effects of Carbon Nanotube Infiltration on a Shape Memory Polymer-Based Device for Brain Aneurysm Therapeutics: Design and Characterization of a Joule-Heating Triggering Mechanism. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2100322	3.5	2
19	Low-cost rapid prototyping of liquid crystal polymer based magnetic microactuators for glaucoma drainage devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> ,	0.9	2
18	2016, 4212-4215 Zwitterionic liquid crystalline polythiophene as an antibiofouling biomaterial. <i>Journal of Materials</i> Chemistry B, <b>2021</b> , 9, 349-356	7.3	2
17	In Vitro Magnetic Techniques for Investigating Cancer Progression. <i>Cancers</i> , <b>2021</b> , 13,	6.6	2
16	Elevated axonal membrane permeability and its correlation with motor deficits in an animal model of multiple sclerosis. <i>Translational Neurodegeneration</i> , <b>2017</b> , 6, 5	10.3	1
15	A Photo-Crosslinkable Chitosan Hydrogel for Peripheral Nerve Anastomosis 2009,		1
14	Critical role of mitochondrial aldehyde dehydrogenase 2 in acrolein sequestering in rat spinal cord injury <i>Neural Regeneration Research</i> , <b>2022</b> , 17, 1505-1511	4.5	1
13	Development of an InIVitro Hemorrhagic Hydrocephalus Model for Functional Evaluation of Magnetic Microactuators Against Shunt Obstructions. <i>World Neurosurgery</i> , <b>2021</b> , 155, e294-e300	2.1	1
12	Psychosocial impairment following mild blast-induced traumatic brain injury in rats. <i>Behavioural Brain Research</i> , <b>2021</b> , 412, 113405	3.4	1

#### LIST OF PUBLICATIONS

11	Longitudinal auditory pathophysiology following mild blast-induced trauma. <i>Journal of Neurophysiology</i> , <b>2021</b> , 126, 1172-1189	3.2	1
10	Targeted delivery of acrolein scavenger hydralazine in spinal cord injury using folate-linker-drug conjugation <i>Free Radical Biology and Medicine</i> , <b>2022</b> , 184, 66-73	7.8	1
9	Ex vivo electrochemical measurement of glutamate release during spinal cord injury. <i>MethodsX</i> , <b>2019</b> , 6, 1894-1900	1.9	О
8	Neuroprotective mechanisms of red clover and soy isoflavones in Parkinsonß disease models. <i>Food and Function</i> , <b>2021</b> , 12, 11987-12007	6.1	0
7	Deficiency of autism-related Scn2a gene in mice disrupts sleep patterns and circadian rhythms <i>Neurobiology of Disease</i> , <b>2022</b> , 105690	7.5	О
6	Determination of acrolein-associated T and T relaxation times and noninvasive detection using nuclear magnetic resonance and magnetic resonance spectroscopy. <i>Applied Magnetic Resonance</i> , <b>2019</b> , 50, 1291-1303	0.8	
5	MRI compatibility of microfabricated magnetic actuators for implantable catheters: Mechanical evaluations. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, <b>2010</b> , 2010, 907-10	0.9	
4	BIOMIMETIC MATERIALS FOR ENGINEERING OF NEURAL TISSUES: CONTROL OF CELL ADHESION AND GUIDING NEURAL CELL OUTGROWTH WITH PEPTIDE-CONJUGATED POLYMER STRUCTURES <b>2010</b> , 347-372		
3	Cytocompatibility and Material Properties of Poly-carbonate Urethane/Carbon Nanofiber Composites for Neural Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 774, 7301		
2	Cytocompatibility of Carbon Nanofiber Materials for Neural Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 774, 7351		
1	Effects of Carbon Nanotube Infiltration on a Shape Memory Polymer-Based Device for Brain Aneurysm Therapeutics: Design and Characterization of a Joule-Heating Triggering Mechanism. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2170022	3.5	