

# Zhisong Lu

## List of Publications by Year in descending order

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153  
papers

7,249  
citations

66234

42  
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66788

78  
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154  
all docs

154  
docs citations

154  
times ranked

11229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Layered Graphene/Quantum Dots for Photovoltaic Devices. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3014-3017.	7.2	626
2	Nanostructured Polyaniline/Titanium Dioxide Composite Anode for Microbial Fuel Cells. <i>ACS Nano</i> , 2008, 2, 113-119.	7.3	381
3	Silk fabric-based wearable thermoelectric generator for energy harvesting from the human body. <i>Applied Energy</i> , 2016, 164, 57-63.	5.1	272
4	Polymer/nanosilver composite coatings for antibacterial applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 439, 69-83.	2.3	215
5	Aptamer induced assembly of fluorescent nitrogen-doped carbon dots on gold nanoparticles for sensitive detection of AFB1. <i>Biosensors and Bioelectronics</i> , 2016, 78, 23-30.	5.3	205
6	Mechanism of Antimicrobial Activity of CdTe Quantum Dots. <i>Langmuir</i> , 2008, 24, 5445-5452.	1.6	198
7	Biointerface by Cell Growth on Layered Grapheneâ€“Artificial Peroxidaseâ€“Protein Nanostructure for In Situ Quantitative Molecular Detection. <i>Advanced Materials</i> , 2010, 22, 5164-5167.	11.1	184
8	Extracellular microbial synthesis of biocompatible CdTe quantum dots. <i>Acta Biomaterialia</i> , 2010, 6, 3534-3541.	4.1	173
9	Direct electrochemistry and electrocatalytic mechanism of evolved <i>Escherichia coli</i> cells in microbial fuel cells. <i>Chemical Communications</i> , 2008, , 1290.	2.2	166
10	In situ synthesis of silver nanoparticles uniformly distributed on polydopamine-coated silk fibers for antibacterial application. <i>Journal of Colloid and Interface Science</i> , 2015, 452, 8-14.	5.0	163
11	Aptamer based fluorescence recovery assay for aflatoxin B1 using a quencher system composed of quantum dots and graphene oxide. <i>Mikrochimica Acta</i> , 2015, 182, 571-578.	2.5	137
12	pH-Controlled Construction of Chitosan/Alginate Multilayer Film:â€“ Characterization and Application for Antibody Immobilization. <i>Langmuir</i> , 2007, 23, 13046-13052.	1.6	134
13	A flexible humidity sensor based on silk fabrics for human respiration monitoring. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4549-4554.	2.7	133
14	Ionic liquidâ€“graphene composite for ultratrace explosive trinitrotoluene detection. <i>Electrochemistry Communications</i> , 2010, 12, 1237-1240.	2.3	132
15	Polydopamine-Functionalization of Graphene Oxide to Enable Dual Signal Amplification for Sensitive Surface Plasmon Resonance Imaging Detection of Biomarker. <i>Analytical Chemistry</i> , 2014, 86, 4488-4493.	3.2	127
16	Cinnamaldehyde inhibits fungal growth and aflatoxin B1 biosynthesis by modulating the oxidative stress response of <i>Aspergillus flavus</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1355-1364.	1.7	116
17	A wearable, cotton thread/paper-based microfluidic device coupled with smartphone for sweat glucose sensing. <i>Cellulose</i> , 2019, 26, 4553-4562.	2.4	106
18	Fabrication of CeO2 nanoparticle-modified silk for UV protection and antibacterial applications. <i>Journal of Colloid and Interface Science</i> , 2014, 435, 8-14.	5.0	98

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19	Fully Printed Ultraflexible Supercapacitor Supported by a Single-Textile Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32317-32323.	4.0	92
20	Poly[oligo(ethylene glycol) methacrylate- <i>co</i> -glycidyl methacrylate] Brush Substrate for Sensitive Surface Plasmon Resonance Imaging Protein Arrays. <i>Advanced Functional Materials</i> , 2010, 20, 3497-3503.	7.8	90
21	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3612-3618.	1.5	83
22	One-step aqueous synthesis of graphene-CdTe quantum dot-composed nanosheet and its enhanced photoresponses. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 588-592.	5.0	71
23	Highly conductive graphene-coated silk fabricated via a repeated coating-reduction approach. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4265-4268.	2.7	69
24	Enhance electron transfer and performance of microbial fuel cells by perforating the cell membrane. <i>Electrochemistry Communications</i> , 2012, 15, 50-53.	2.3	68
25	UV-assisted in situ synthesis of silver nanoparticles on silk fibers for antibacterial applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 447, 1-7.	2.3	68
26	Controllable in situ synthesis of silver nanoparticles on multilayered film-coated silk fibers for antibacterial application. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 369-375.	5.0	61
27	Sensitive Human Interleukin 5 Impedimetric Sensor Based on Polypyrrole-Pyrrolepropylic Acid-Gold Nanocomposite. <i>Analytical Chemistry</i> , 2008, 80, 8485-8492.	3.2	60
28	Facile and Low-Cost Fabrication of a Thread/Paper-Based Wearable System for Simultaneous Detection of Lactate and pH in Human Sweat. <i>Advanced Fiber Materials</i> , 2020, 2, 265-278.	7.9	60
29	Graphene-coated counter electrode to significantly reduce Pt loading and enhance charge transfer for high performance dye-sensitized solar cell. <i>Solar Energy</i> , 2012, 86, 2041-2048.	2.9	58
30	Rewritable multicolor fluorescent patterns for multistate memory devices with high data storage capacity. <i>Chemical Communications</i> , 2011, 47, 9609.	2.2	55
31	Functional single-walled carbon nanotubes-CAR™ for targeting dopamine delivery into the brain of parkinsonian mice. <i>Nanoscale</i> , 2017, 9, 10832-10845.	2.8	52
32	A thermoresponsive microfluidic system integrating a shape memory polymer-modified textile and a paper-based colorimetric sensor for the detection of glucose in human sweat. <i>RSC Advances</i> , 2019, 9, 23957-23963.	1.7	52
33	In Situ Surface Plasmon Resonance Investigation of the Assembly Process of Multiwalled Carbon Nanotubes on an Alkanethiol Self-Assembled Monolayer for Efficient Protein Immobilization and Detection. <i>Langmuir</i> , 2010, 26, 8386-8391.	1.6	51
34	In situ fabrication of silver nanoarrays in hyaluronan/PDDA layer-by-layer assembled structure. <i>Journal of Colloid and Interface Science</i> , 2008, 327, 459-465.	5.0	50
35	Deposition of catechol-functionalized chitosan and silver nanoparticles on biomedical titanium surfaces for antibacterial application. <i>Materials Science and Engineering C</i> , 2019, 98, 649-656.	3.8	49
36	Studies on formation and repair of formaldehyde-damaged DNA by detection of DNA-protein crosslinks and DNA breaks. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 991.	3.0	48

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37	Controllably layer-by-layer self-assembled polyelectrolytes/nanoparticle blend hollow capsules and their unique properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 5148.	6.7	48
38	Hydrogen-peroxide-modified egg albumen for transparent and flexible resistive switching memory. <i>Nanotechnology</i> , 2017, 28, 425202.	1.3	48
39	A portable flow-through fluorescent immunoassay lab-on-a-chip device using ZnO nanorod-decorated glass capillaries. <i>Lab on A Chip</i> , 2013, 13, 1797.	3.1	47
40	Fabrication of the FGF1-functionalized sericin hydrogels with cell proliferation activity for biomedical application using genetically engineered <i>Bombyx mori</i> ( <i>B. mori</i> ) silk. <i>Acta Biomaterialia</i> , 2018, 79, 239-252.	4.1	46
41	Solution-Processable Barium Titanate and Strontium Titanate Nanoparticle Dielectrics for Low-Voltage Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2009, 21, 3153-3161.	3.2	45
42	Graphene oxide-enabled tandem signal amplification for sensitive SPRi immunoassay in serum. <i>Chemical Communications</i> , 2014, 50, 2133.	2.2	45
43	UV-Assisted Deposition of Antibacterial Ag-Tannic Acid Nanocomposite Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20708-20717.	4.0	45
44	Semiconductive Polymers Containing Dithieno[3,2-b:2',3'-d]pyrrole for Organic Thin-Film Transistors. <i>Macromolecules</i> , 2008, 41, 8953-8955.	2.2	44
45	Effect of particle shape on phagocytosis of CdTe quantum dot-cystine composites. <i>MedChemComm</i> , 2010, 1, 84.	3.5	44
46	Surface functionalization-enhanced spillover effect on hydrogen storage of Ni-B nanoalloy-doped activated carbon. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13663-13668.	3.8	42
47	A sensitive lateral flow immunochromatographic strip with prussian blue nanoparticles mediated signal generation and cascade amplification. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127728.	4.0	42
48	One-step self-assembly of biogenic Au NPs/PEG-based universal coatings for antifouling and photothermal killing of bacterial pathogens. <i>Chemical Engineering Journal</i> , 2021, 421, 130005.	6.6	41
49	Synthesis and Electrical Transport Properties of Single-Crystal Antimony Sulfide Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17131-17135.	1.5	40
50	Covalently linked DNA/protein multilayered film for controlled DNA release. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 80-88.	5.0	39
51	Highly sensitive poly[glycidyl methacrylate-co-poly(ethylene glycol) methacrylate] brush-based flow-through microarray immunoassay device. <i>Biomedical Microdevices</i> , 2011, 13, 769-777.	1.4	38
52	Cognitive deficits and decreased locomotor activity induced by single-walled carbon nanotubes and neuroprotective effects of ascorbic acid. <i>International Journal of Nanomedicine</i> , 2014, 9, 823.	3.3	38
53	Photografted poly(methyl methacrylate)-based high performance protein microarray for hepatitis B virus biomarker detection in human serum. <i>MedChemComm</i> , 2010, 1, 132.	3.5	37
54	In situ AFM study of electrochemical synthesis of polypyrrole/Au nanocomposite. <i>Electrochemistry Communications</i> , 2008, 10, 1340-1343.	2.3	36

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55	High performance protein microarrays based on glycidyl methacrylate-modified polyethylene terephthalate plastic substrate. <i>Talanta</i> , 2009, 77, 1165-1171.	2.9	36
56	Application of vitamin E to antagonize SWCNTs-induced exacerbation of allergic asthma. <i>Scientific Reports</i> , 2014, 4, 4275.	1.6	35
57	An ultrasensitive aptasensor for detection of Ochratoxin A based on shielding effect-induced inhibition of fluorescence resonance energy transfer. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 797-803.	4.0	35
58	Electrochemically polymerized nanostructured poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) buffer layer for a high performance polymer solar cell. <i>Energy and Environmental Science</i> , 2010, 3, 1580.	15.6	34
59	Charged drug delivery by ultrafast exponentially grown weak polyelectrolyte multilayers: amphoteric properties, ultrahigh loading capacity and pH-responsiveness. <i>Journal of Materials Chemistry</i> , 2012, 22, 9351.	6.7	34
60	Stimuli-Free Reversible and Controllable Loading and Release of Proteins under Physiological Conditions by Exponentially Growing Nanoporous Multilayered Structure. <i>Advanced Functional Materials</i> , 2012, 22, 1932-1939.	7.8	32
61	Tailor and functionalize TiO <sub>2</sub> compact layer by acid treatment for high performance dye-sensitized solar cell and its enhancement mechanism. <i>Renewable Energy</i> , 2013, 51, 29-35.	4.3	32
62	Thermal and mechanical performance of unidirectional composites from bamboo fibers with varying volume fractions. <i>Polymer Composites</i> , 2019, 40, 3929-3937.	2.3	32
63	In vitro anti-aflatoxigenic effect and mode of action of cinnamaldehyde against aflatoxin B <sub>1</sub> . <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 419-425.	1.9	30
64	Interaction mechanisms of CdTe quantum dots with proteins possessing different isoelectric points. <i>MedChemComm</i> , 2011, 2, 283.	3.5	29
65	Aptamer-tagged DNA origami for spatially addressable detection of aflatoxin B <sub>1</sub> . <i>Chemical Communications</i> , 2017, 53, 941-944.	2.2	29
66	Constructing high effective nano-Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> -chitosan in situ electrochemical detection interface for superoxide anions released from living cell. <i>Biosensors and Bioelectronics</i> , 2019, 133, 133-140.	5.3	29
67	Preparing Polypyrrole-Coated Stretchable Textile via Low-Temperature Interfacial Polymerization for Highly Sensitive Strain Sensor. <i>Micromachines</i> , 2019, 10, 788.	1.4	29
68	Simultaneous deposition of tannic acid and poly(ethylene glycol) to construct the antifouling polymeric coating on Titanium surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 200, 111592.	2.5	29
69	Theoretical and Experimental Studies of Electronic Transport of Dithienothiophene. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12530-12537.	1.5	28
70	Mechanism for $\text{MnO}_2$ Nanowire-Induced Cytotoxicity in Hela Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 397-404.	0.9	28
71	Self-assembling micro-sized materials to fabricate multifunctional hierarchical nanostructures on macroscale substrates. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6416.	5.2	28
72	Plastic protein microarray to investigate the molecular pathways of magnetic nanoparticle-induced nanotoxicity. <i>Nanotechnology</i> , 2013, 24, 175501.	1.3	28

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73	Flexible Supercapacitor Based on Inkjet-Printed Graphene@Polyaniline Nanocomposites with Ultrahigh Capacitance. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800092.	1.7	28
74	A Sandwich-Structured Piezoresistive Sensor with Electrospun Nanofiber Mats as Supporting, Sensing, and Packaging Layers. <i>Polymers</i> , 2018, 10, 575.	2.0	28
75	Effect of Fiber Surface Modification on the Interfacial Adhesion and Thermo-Mechanical Performance of Unidirectional Epoxy-Based Composites Reinforced with Bamboo Fibers. <i>Molecules</i> , 2019, 24, 2682.	1.7	28
76	Genetically engineered bi-functional silk material with improved cell proliferation and anti-inflammatory activity for medical application. <i>Acta Biomaterialia</i> , 2019, 86, 148-157.	4.1	28
77	Comparative Study of Time-Resolved Fluorescent Nanobeads, Quantum Dot Nanobeads and Quantum Dots as Labels in Fluorescence Immunochromatography for Detection of Aflatoxin B1 in Grains. <i>Biomolecules</i> , 2020, 10, 575.	1.8	28
78	Self-assembled monolayers mediated charge injection for high performance bottom-contact poly(3,3'-diindolylquaterthiophene) thin-film transistors. <i>Organic Electronics</i> , 2008, 9, 936-943.	1.4	27
79	Mechanism for dimethylformamide-treatment of poly(3,4-ethylenedioxythiophene): poly(styrene) Tj ETQq1 1 0.784314 rgBT /Overloc Solar Cells, 2012, 100, 115-119.	3.0	26
80	Direct Observation and Analysis of Annealing-Induced Microstructure at Interface and Its Effect on Performance Improvement of Organic Thin Film Transistors. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12270-12278.	1.2	25
81	Solution-Prepared Hybrid-Nanoparticle Dielectrics for High-Performance Low-Voltage Organic Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2230-2236.	4.0	25
82	Flexible and wearable electronic silk fabrics for human physiological monitoring. <i>Smart Materials and Structures</i> , 2017, 26, 095033.	1.8	25
83	Transgenic Silkworm-Based Silk Gland Bioreactor for Large Scale Production of Bioactive Human Platelet-Derived Growth Factor (PDGF-BB) in Silk Cocoons. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2533.	1.8	25
84	Photophysical Mechanism for Quantum Dots-Induced Bacterial Growth Inhibition. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3252-3255.	0.9	24
85	Sensitive protein microarray synergistically amplified by polymer brush-enhanced immobilizations of both probe and reporter. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 593-599.	5.0	24
86	Simultaneous detection of lactate and glucose by integrated printed circuit board based array sensing chip. <i>Analytica Chimica Acta</i> , 2013, 771, 102-107.	2.6	24
87	A selenium-confined porous carbon cathode from silk cocoons for Li-Se battery applications. <i>RSC Advances</i> , 2015, 5, 96146-96150.	1.7	24
88	Hydrothermal derived protoporphyrin IX nanoparticles for inactivation and imaging of bacteria strains. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 72-79.	5.0	23
89	Transgenic PDGF-BB/sericin hydrogel supports for cell proliferation and osteogenic differentiation. <i>Biomaterials Science</i> , 2020, 8, 657-672.	2.6	23
90	Solution-processable organic-capped titanium oxide nanoparticle dielectrics for organic thin-film transistors. <i>Applied Physics Letters</i> , 2008, 93, 113304.	1.5	22

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91	A time-course transcriptome analysis of Escherichia coli with direct electrochemistry behavior in microbial fuel cells. Chemical Communications, 2009, , 6183.	2.2	22
92	Biocompatible fluorescence-enhanced ZrO <sub>2</sub> •CdTe quantum dot nanocomposite for in vitro cell imaging. Nanotechnology, 2011, 22, 155604.	1.3	22
93	Aspergillus flavus Conidia-derived Carbon/Sulfur Composite as a Cathode Material for High Performance Lithium•Sulfur Battery. Scientific Reports, 2016, 6, 18739.	1.6	22
94	Involvement of superoxide and nitric oxide in BRAF <sup>V600E</sup> inhibitor PLX4032-induced growth inhibition of melanoma cells. Integrative Biology (United Kingdom), 2014, 6, 1211-1217.	0.6	21
95	Ultrathin MnO <sub>2</sub> nanosheets grown on fungal conidium-derived hollow carbon spheres as supercapacitor electrodes. RSC Advances, 2016, 6, 5184-5191.	1.7	21
96	New architecture for accurate characterization of the behavior of individual sub-cells within a tandem organic solar cell. Energy and Environmental Science, 2008, 1, 389.	15.6	20
97	ZnO Nanomulberry and Its Significant Nonenzymatic Signal Enhancement for Protein Microarray. ACS Applied Materials & Interfaces, 2014, 6, 7728-7734.	4.0	20
98	A Weavable and Scalable Cotton•Yarn•Based Battery Activated by Human Sweat for Textile Electronics. Advanced Science, 2022, 9, e2103822.	5.6	20
99	Fabrication of oriented poly-l-lysine/bacteriorhodopsin-embedded purple membrane multilayer structure for enhanced photoelectric response. Journal of Colloid and Interface Science, 2010, 344, 150-157.	5.0	19
100	A flexible sandwich-structured supercapacitor with poly(vinyl alcohol)/H3PO4-soaked cotton fabric as solid electrolyte, separator and supporting layer. Cellulose, 2018, 25, 3459-3469.	2.4	19
101	Amino-containing tannic acid derivative-mediated universal coatings for multifunctional surface modification. Biomaterials Science, 2020, 8, 2120-2128.	2.6	19
102	Tannic acid-assisted deposition of silk sericin on the titanium surfaces for antifouling application. Colloids and Interface Science Communications, 2020, 35, 100241.	2.0	19
103	Voltammetric determination of 4-chlorophenol using multiwall carbon nanotube/gold nanoparticle nanocomposite modified glassy carbon electrodes. RSC Advances, 2016, 6, 34692-34698.	1.7	18
104	Involvement of ROS in nanosilver-caused suppression of aflatoxin production from Aspergillus flavus. RSC Advances, 2017, 7, 23021-23026.	1.7	18
105	BC@DNA-Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> Nanozyme for Real-Time Detection of Superoxide from Living Cells. Analytical Chemistry, 2020, 92, 15927-15935.	3.2	18
106	Synthesis of merit-combined antimony tetroxide nanoflowers/reduced graphene oxide to synergistically boost real-time detection of nitric oxide released from living cells for high sensitivity. Journal of Colloid and Interface Science, 2021, 581, 465-474.	5.0	18
107	Cohesive thermoplastic-assisted patterning and assembly of a textile-supported piezoresistive sensor for monitoring human vital signs. Smart Materials and Structures, 2018, 27, 105027.	1.8	17
108	Fluffy-ball-shaped carbon nanotube•TiO <sub>2</sub> nanorod nanocomposites for photocatalytic degradation of methylene blue. RSC Advances, 2015, 5, 42580-42586.	1.7	16

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109	A novel colorimetric immunoassay strategy using iron(III) oxide magnetic nanoparticles as a label for signal generation and amplification. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1454-1460.	2.9	16
110	Chip architecture-enabled sensitivity enhancement of oblique-incidence reflectivity difference for label-free protein microarray detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 216-223.	4.0	16
111	Spontaneous formation of tumor spheroid on a hydrophilic filter paper for cancer stem cell enrichment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 426-434.	2.5	16
112	Multilayered films incorporating CdTe quantum dots with tunable optical properties for antibacterial application. <i>Thin Solid Films</i> , 2013, 548, 336-342.	0.8	14
113	A tetraphenylethene and maltoheptaose conjugate with aggregation-induced emission (AIE) characteristic for temperature sensors. <i>New Journal of Chemistry</i> , 2018, 42, 14709-14712.	1.4	14
114	Flexible electronic skin with nanostructured interfaces via flipping over electroless deposited metal electrodes. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 618-624.	5.0	14
115	High performance organic thin film transistor with phenyltrimethoxysilane-modified dielectrics. <i>Applied Physics Letters</i> , 2009, 94, 153308.	1.5	13
116	Microstructure transformations induced by modified-layers on pentacene polymorphic films and their effect on performance of organic thin-film transistor. <i>Organic Electronics</i> , 2009, 10, 1388-1395.	1.4	13
117	Solar cells made from polymers containing Dithieno[3,2-b:2',3'-d]pyrrole with different side chain lengths. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 969-973.	3.0	13
118	Integration of bacteriorhodopsin with upconversion nanoparticles for NIR-triggered photoelectrical response. <i>Chemical Communications</i> , 2015, 51, 6373-6376.	2.2	13
119	Multi-chamber petaloid root-growth chip for the non-destructive study of the development and physiology of the fibrous root system of <i>Oryza sativa</i> . <i>Lab on A Chip</i> , 2019, 19, 2383-2393.	3.1	13
120	Sacrificial polymer thin-film template with tunability to construct high-density Au nanoparticle arrays and their refractive index sensing. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15499.	1.3	12
121	ZnO nanorod-templated well-aligned ZrO <sub>2</sub> nanotube arrays for fibroblast adhesion and proliferation. <i>Nanotechnology</i> , 2014, 25, 215102.	1.3	12
122	Genetic fabrication of functional silk mats with improved cell proliferation activity for medical applications. <i>Biomaterials Science</i> , 2019, 7, 4536-4546.	2.6	12
123	Sensitive colorimetric detection of ochratoxin A by a dual-functional Au/Fe <sub>3</sub> O <sub>4</sub> nanohybrid-based aptasensor. <i>RSC Advances</i> , 2019, 9, 38590-38596.	1.7	12
124	Adhesive tape-assisted etching of silk fibroin film with LiBr aqueous solution for microfluidic devices. <i>Materials Science and Engineering C</i> , 2021, 118, 111543.	3.8	12
125	Bottom-Contact Poly(3,3'-didodecylquaterthiophene) Thin-Film Transistors with Gold Source-Drain Electrodes Modified by Alkanethiol Monolayers. <i>Langmuir</i> , 2008, 24, 11889-11894.	1.6	11
126	An ultrasensitive colorimetric strategy for protein O-GlcNAcylation detection via copper deposition-enabled nonenzymatic signal amplification. <i>RSC Advances</i> , 2016, 6, 89484-89491.	1.7	11

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127	Ferric ion-assisted in situ synthesis of silver nanoplates on polydopamine-coated silk. <i>Journal of Colloid and Interface Science</i> , 2016, 479, 244-250.	5.0	11
128	Re-stickable All-Solid-State Supercapacitor Supported by Cohesive Thermoplastic for Textile Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45322-45331.	4.0	11
129	Mussel Adhesive Mimetic Silk Sericin Prepared by Enzymatic Oxidation for the Construction of Antibacterial Coatings. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3379-3388.	2.6	11
130	ZnO nanowire array-templated LbL self-assembled polyelectrolyte nanotube arrays and application for charged drug delivery. <i>Nanotechnology</i> , 2013, 24, 045605.	1.3	10
131	One-Step Dip-Coating-Fabricated Core-Shell Silk Fibroin Rice Paper Fibrous Scaffolds for 3D Tumor Spheroid Formation. <i>ACS Applied Bio Materials</i> , 2020, 3, 7462-7471.	2.3	10
132	Electrochemical analysis of specific catalase activity during development of <i>Aspergillus flavus</i> and its correlation with aflatoxin B1 production. <i>Food Chemistry</i> , 2021, 337, 127978.	4.2	10
133	Bionic Silk Fibroin Film Induces Morphological Changes and Differentiation of Tendon Stem/Progenitor Cells. <i>Applied Bionics and Biomechanics</i> , 2020, 2020, 1-10.	0.5	10
134	AFM study of adsorption of protein A on a poly(dimethylsiloxane) surface. <i>Nanotechnology</i> , 2009, 20, 285101.	1.3	9
135	Bio-inspired synthesis of carbon hollow microspheres from <i>Aspergillus flavus</i> conidia for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 59655-59658.	1.7	9
136	Separation and Characterization of Prostate Cancer Cell Subtype according to Their Motility Using a Multi-Layer CiGiP Culture. <i>Micromachines</i> , 2018, 9, 660.	1.4	9
137	Type II vanilloid receptor signaling system: one of the possible mechanisms for the rise in asthma cases. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 2527.	3.0	9
138	Transient transmembrane secretion of H <sub>2</sub> O <sub>2</sub> : a mechanism for the citral-caused inhibition of aflatoxin production from <i>Aspergillus flavus</i> . <i>Chemical Communications</i> , 2015, 51, 17424-17427.	2.2	8
139	Controllable stationary photocurrents generated from a bacteriorhodopsin/upconversion nanoparticle-based bionanosystem under NIR illumination. <i>Nanoscale</i> , 2016, 8, 18524-18530.	2.8	8
140	A maltoheptaose-decorated BODIPY photosensitizer for photodynamic inactivation of Gram-positive bacteria. <i>New Journal of Chemistry</i> , 2019, 43, 15057-15065.	1.4	8
141	Constructing Silk Fibroin-Based Three-Dimensional Microfluidic Devices <i>via</i> a Tape Mask-Assisted Multiple-Step Etching Technique. <i>ACS Applied Bio Materials</i> , 2021, 4, 8039-8048.	2.3	8
142	Cellulose Aerogel Derived Hierarchical Porous Carbon for Enhancing Flavin-Based Interfacial Electron Transfer in Microbial Fuel Cells. <i>Polymers</i> , 2020, 12, 664.	2.0	7
143	Fast and low-cost patterning of electrodes on versatile 2D and 3D substrates by cutting and origami cohesive thermoplastic for biosensing applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2431-2436.	4.0	7
144	Bionic Silk Fibroin Film Promotes Tenogenic Differentiation of Tendon Stem/Progenitor Cells by Activating Focal Adhesion Kinase. <i>Stem Cells International</i> , 2020, 2020, 1-10.	1.2	6

#	ARTICLE	IF	CITATIONS
145	3-D microarray and its microfabrication-free fluidic immunoassay device. <i>Analytica Chimica Acta</i> , 2015, 889, 187-193.	2.6	5
146	Directly Grown $K_{0.33}WO_3$ Nanosheet Film Electrode for Fast Direct Electron Transfer of Protein. <i>ChemElectroChem</i> , 2014, 1, 463-470.	1.7	3
147	Oligonucleotide length- and probe number-dependent assembly of gold nanoparticle on triangular DNA origami. <i>RSC Advances</i> , 2016, 6, 36823-36826.	1.7	3
148	Inkjet-Printed Planar Biochips for Interfacial Detection of Biomolecules. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700588.	1.9	3
149	Green synthesis of perylene diimide-based nanodots for carbon dioxide sensing, antibacterial activity prediction and bacterial discrimination. <i>Dyes and Pigments</i> , 2020, 176, 108245.	2.0	2
150	Involvement of $O_2^{\cdot-}$ release in zearalenone-induced hormesis of intestinal porcine enterocytes: An electrochemical sensor-based analysis. <i>Bioelectrochemistry</i> , 2022, 144, 108049.	2.4	2
151	One-pot synthesis of one-dimensional CdTe-cystine nanocomposite for humidity sensing. <i>Nanotechnology</i> , 2014, 25, 115703.	1.3	1
152	A coaxial nanocable textured by a cerium oxide shell and carbon core for sensing nitric oxide. <i>Mikrochimica Acta</i> , 2019, 186, 789.	2.5	1
153	Screen-printing $Bi_2S_3$ nanowires on silk fabrics for a flexible optical switch. <i>Flexible and Printed Electronics</i> , 2017, 2, 025001.	1.5	0