

Digital cameras with designs inspired by the arthropod

Nature

497, 95-99

DOI: [10.1038/nature12083](https://doi.org/10.1038/nature12083)

Citation Report

#	ARTICLE	IF	CITATIONS
11	Optically Tunable Terahertz Metamaterials on Highly Flexible Substrates. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 702-708.	2.0	61
12	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. Nature Protocols, 2013, 8, 2413-2428.	5.5	177
13	2013 Editors' choice. Nature, 2013, 504, 386-387.	13.7	0
14	Lasing characteristics of curved semiconductor nanowires. Frontiers of Optoelectronics, 2013, 6, 448-451.	1.9	0
15	An analytical mechanics model for the island-bridge structure of stretchable electronics. Soft Matter, 2013, 9, 8476.	1.2	82
16	Flexible Miniaturized Camera Array Inspired by Natural Visual Systems. Journal of Microelectromechanical Systems, 2013, 22, 1254-1256.	1.7	9
17	A flexible ultra-thin-body SOI single-photon avalanche diode. , 2013, , .		4
18	Mechanics of ultra-stretchable self-similar serpentine interconnects. Acta Materialia, 2013, 61, 7816-7827.	3.8	183
19	Seeing the world through an insect's eyes. Nature, 2013, 497, 47-48.	13.7	19
20	25th Anniversary Article: The Evolution of Electronic Skin (E ² Skin): A Brief History, Design Considerations, and Recent Progress. Advanced Materials, 2013, 25, 5997-6038.	11.1	2,001
21	Flexible, low-loss, large-area, wide-angle, wavelength-selective plasmonic multilayer metasurface. Journal of Applied Physics, 2013, 114, .	1.1	21
22	Demonstration of a multichannel, multiresolution imaging system. Applied Optics, 2013, 52, 6081.	0.9	31
23	Optic-Flow Based Slope Estimation for Autonomous Landing. International Journal of Micro Air Vehicles, 2013, 5, 287-297.	1.0	34
24	Nanoscale-accuracy transfer printing of ultra-thin AlInGaN light-emitting diodes onto mechanically flexible substrates. Applied Physics Letters, 2013, 103, .	1.5	57
25	Development of a micro-indentation device for measuring the mechanical properties of soft materials. Theoretical and Applied Mechanics Letters, 2013, 3, 054004.	1.3	4
27	Flexible integrated photonics: where materials, mechanics and optics meet [Invited]. Optical Materials Express, 2013, 3, 1313.	1.6	153
28	A three-channel miniaturized optical system for multi-resolution imaging. Proceedings of SPIE, 2013, , .	0.8	0
29	Digital camera gives a bug's-eye view. Nature, 2013, , .	13.7	0

#	ARTICLE	IF	CITATIONS
30	Fabrication and Characterization of Flexible Electrowetting on Dielectrics (EWOD) Microlens. <i>Micromachines</i> , 2014, 5, 432-441.	1.4	39
31	Bio-Inspired Wide-Angle Broad-Spectrum Cylindrical Lens Based on Reflections from Micro-Mirror Array on a Cylindrical Elastomeric Membrane. <i>Micromachines</i> , 2014, 5, 373-384.	1.4	4
32	Fabrication of microlens arrays with varied focal lengths on curved surfaces using an electrostatic deformed template. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 065008.	1.5	12
33	Materials for semiconductor devices that can bend, fold, twist, and stretch. <i>MRS Bulletin</i> , 2014, 39, 549-556.	1.7	36
34	Fabric-based stretchable electronics with mechanically optimized designs and prestrained composite substrates. <i>Extreme Mechanics Letters</i> , 2014, 1, 120-126.	2.0	27
35	LumiConSense: A Transparent, Flexible, and Scalable Thin-Film Sensor. <i>IEEE Computer Graphics and Applications</i> , 2014, 34, 98-102.	1.0	5
36	Mechanics Design for Stretchable, High Areal Coverage GaAs Solar Module on an Ultrathin Substrate. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	1.1	21
37	Hardware Architecture and Cutting-Edge Assembly Process of a Tiny Curved Compound Eye. <i>Sensors</i> , 2014, 14, 21702-21721.	2.1	24
38	Multiple Neutral Axes in Bending of a Multiple-Layer Beam With Extremely Different Elastic Properties. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	1.1	41
39	Curved artificial compound-eyes for autonomous navigation. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
40	Light field sensor and real-time panorama imaging multi-camera system and the design of data acquisition. , 2014, , .		1
41	Improvement on object detection accuracy by using two compound eye systems. , 2014, , .		2
42	Bendable ZnO thin film surface acoustic wave devices on polyethylene terephthalate substrate. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	31
43	Development of an artificial compound eye system for three-dimensional object detection. <i>Applied Optics</i> , 2014, 53, 1166.	0.9	34
44	A tunable hemispherical platform for non-stretching curved flexible electronics and optoelectronics. <i>Journal of Applied Physics</i> , 2014, 116, 044508.	1.1	4
45	An Intrinsically Stretchable Nanowire Photodetector with a Fully Embedded Structure. <i>Advanced Materials</i> , 2014, 26, 943-950.	11.1	163
46	Multifunctional Skin-Like Electronics for Quantitative, Clinical Monitoring of Cutaneous Wound Healing. <i>Advanced Healthcare Materials</i> , 2014, 3, 1597-1607.	3.9	226
47	One-step fabrication of free-standing flexible membranes reinforced with self-assembled arrays of carbon nanotubes. <i>Applied Physics Letters</i> , 2014, 105, 153101.	1.5	6

#	ARTICLE	IF	CITATIONS
48	Flexible Single-Crystal Silicon Nanomembrane Photonic Crystal Cavity. ACS Nano, 2014, 8, 12265-12271.	7.3	35
49	A hierarchical computational model for stretchable interconnects with fractal-inspired designs. Journal of the Mechanics and Physics of Solids, 2014, 72, 115-130.	2.3	115
50	Computing optical flow from bio-inspired spherical retina. , 2014, , .		1
51	A multi-aperture imager for a wearable camera. Proceedings of SPIE, 2014, , .	0.8	0
52	25th Anniversary Article: A Soft Future: From Robots and Sensor Skin to Energy Harvesters. Advanced Materials, 2014, 26, 149-162.	11.1	732
53	Broadband antireflective silicon nanostructures produced by spin-coated Ag nanoparticles. Nanoscale Research Letters, 2014, 9, 54.	3.1	5
54	Wearable, Humanâ€Interactive, Healthâ€Monitoring, Wireless Devices Fabricated by Macroscale Printing Techniques. Advanced Functional Materials, 2014, 24, 3299-3304.	7.8	392
55	Efficiency Enhancement of Organic Solar Cells Using Hydrophobic Antireflective Inverted Mothâ€Eye Nanopatterned PDMS Films. Advanced Energy Materials, 2014, 4, 1301315.	10.2	151
56	Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. Journal of Materials Chemistry A, 2014, 2, 9142-9149.	5.2	299
57	Flexible and Transparent Siliconâ€onâ€Polymer Based Subâ€20 nm Nonâ€planar 3D FinFET for Brainâ€Architecture Inspired Computation. Advanced Materials, 2014, 26, 2794-2799.	11.1	49
58	Largeâ€Fieldâ€ofâ€View Wideâ€Spectrum Artificial Reflecting Superposition Compound Eyes. Small, 2014, 10, 3050-3057.	5.2	62
59	7.2 243.3pJ/pixel bio-inspired time-stamp-based 2D optic flow sensor for artificial compound eyes. , 2014, , .		18
60	Nonâ€Destructive Wafer Recycling for Lowâ€Cost Thinâ€Film Flexible Optoelectronics. Advanced Functional Materials, 2014, 24, 4284-4291.	7.8	61
61	Highly sensitive electronic whiskers based on patterned carbon nanotube and silver nanoparticle composite films. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1703-1707.	3.3	234
62	Stretchable Silverâ€Zinc Batteries Based on Embedded Nanowire Elastic Conductors. Advanced Energy Materials, 2014, 4, 1301396.	10.2	127
63	Siliconâ€Based Visibleâ€Blind Ultraviolet Detection and Imaging Using Downâ€Shifting Luminophores. Advanced Optical Materials, 2014, 2, 314-319.	3.6	55
64	Flexible and Stretchable Electronics Paving the Way for Soft Robotics. Soft Robotics, 2014, 1, 53-62.	4.6	436
65	Water-repellent perovskite solar cell. Journal of Materials Chemistry A, 2014, 2, 20017-20021.	5.2	65

#	ARTICLE	IF	CITATIONS
66	Saddle-like deformation in a dielectric elastomer actuator embedded with liquid-phase gallium-indium electrodes. <i>Journal of Applied Physics</i> , 2014, 116, 144905.	1.1	35
67	Replication and characterization of the compound eye of a fruit fly for imaging purpose. <i>Applied Physics Letters</i> , 2014, 105, 143705.	1.5	10
68	A Flexible Ultrathin-Body Single-Photon Avalanche Diode With Dual-Side Illumination. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 276-283.	1.9	9
69	Graphene-Based Conformal Devices. <i>ACS Nano</i> , 2014, 8, 7655-7662.	7.3	86
70	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , 2014, 5, 4779.	5.8	309
71	Towards Full Omnidirectional Depth Sensing Using Active Vision for Small Unmanned Aerial Vehicles. , 2014, , .		2
72	Surfactant-mediated formation of polymeric microlenses from interfacial microdroplets. <i>Soft Matter</i> , 2014, 10, 957-964.	1.2	22
73	High-efficiency transfer of percolating nanowire films for stretchable and transparent photodetectors. <i>Nanoscale</i> , 2014, 6, 10734-10739.	2.8	99
74	Insect-â€‘Human Hybrid Eye (IHHE): an adaptive optofluidic lens combining the structural characteristics of insect and human eyes. <i>Lab on A Chip</i> , 2014, 14, 3594-3602.	3.1	33
75	Fully Printed, Highly Sensitive Multifunctional Artificial Electronic Whisker Arrays Integrated with Strain and Temperature Sensors. <i>ACS Nano</i> , 2014, 8, 3921-3927.	7.3	286
76	Stretchable Energy Storage and Conversion Devices. <i>Small</i> , 2014, 10, 3443-3460.	5.2	126
77	Biomimetic optic designs for advanced optoelectronics. , 2014, , .		0
78	Robotics and Neuroscience. <i>Current Biology</i> , 2014, 24, R910-R920.	1.8	64
79	Patient-specific flexible and stretchable devices for cardiac diagnostics and therapy. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 115, 244-251.	1.4	50
80	Flexible Nanoscale High-Performance FinFETs. <i>ACS Nano</i> , 2014, 8, 9850-9856.	7.3	65
81	Bio-integrated electronics. , 2014, , .		0
82	Angular distribution of light emission from compound-eye cornea with conformal fluorescent coating. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	5
83	Small Brains, Smart Machines: From Fly Vision to Robot Vision and Back Again. <i>Proceedings of the IEEE</i> , 2014, 102, 751-781.	16.4	55

#	ARTICLE	IF	CITATIONS
84	Bioinspired Fabrication of High-Quality 3D Artificial Compound Eyes by Voxel-Modulation Femtosecond Laser Writing for Distortion-Free Wide-Field-of-View Imaging. <i>Advanced Optical Materials</i> , 2014, 2, 751-758.	3.6	134
85	Experimental and Theoretical Studies of Serpentine Microstructures Bonded To Prestrained Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 2028-2037.	7.8	273
86	Bioinspired Polarization Imaging Sensors: From Circuits and Optics to Signal Processing Algorithms and Biomedical Applications. <i>Proceedings of the IEEE</i> , 2014, 102, 1450-1469.	16.4	94
87	Transformational Silicon Electronics. <i>ACS Nano</i> , 2014, 8, 1468-1474.	7.3	80
88	Progress in 2D photonic crystal Fano resonance photonics. <i>Progress in Quantum Electronics</i> , 2014, 38, 1-74.	3.5	232
89	A transparent thin-film sensor for multi-focal image reconstruction and depth estimation. <i>Optics Express</i> , 2014, 22, 8928.	1.7	25
90	Enhanced learning-based imaging with thin-film luminescent concentrators. <i>Optics Express</i> , 2014, 22, 29531.	1.7	12
91	Arthropod eye-inspired digital camera with unique imaging characteristics. , 2014, , .		3
92	Curved focal plane extreme ultraviolet detector array for a EUV camera on CHANG E lander. <i>Optics Express</i> , 2015, 23, 30755.	1.7	7
93	Scalable Microaccordion Mesh for Deformable and Stretchable Metallic Films. <i>Physical Review Applied</i> , 2015, 4, .	1.5	14
94	Micro-Fresnel-Zone-Plate Array on Flexible Substrate for Large Field-of-View and Focus Scanning. <i>Scientific Reports</i> , 2015, 5, 15861.	1.6	39
95	A novel hybrid architecture for real-time omnidirectional image reconstruction. , 2015, , .		1
96	Improved light extraction efficiency of GaN-based vertical LEDs using hierarchical micro/subwavelength structures. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FH02.	0.8	4
97	Fabrication and Characterization of a Conformal Skin-like Electronic System for Quantitative, Cutaneous Wound Management. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	5
98	Design of artificial spherical superposition compound eye. <i>Optics Communications</i> , 2015, 356, 218-222.	1.0	7
99	Fabrication of microoptical freeform arrays on wafer level for imaging applications. <i>Optics Express</i> , 2015, 23, 31915.	1.7	21
100	Transfer Printing of Metallic Microstructures on Adhesion-Promoting Hydrogel Substrates. <i>Advanced Materials</i> , 2015, 27, 3398-3404.	11.1	44
101	Metal/Polymer Based Stretchable Antenna for Constant Frequency Far-Field Communication in Wearable Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 6565-6575.	7.8	134

#	ARTICLE	IF	CITATIONS
102	Heterogeneously Integrated Optoelectronic Devices Enabled by Micro-Transfer Printing. <i>Advanced Optical Materials</i> , 2015, 3, 1313-1335.	3.6	127
103	Transfer Printed Nanomembranes for Heterogeneously Integrated Membrane Photonics. <i>Photonics</i> , 2015, 2, 1081-1100.	0.9	14
104	Controllable Direct-Writing of Serpentine Micro/Nano Structures via Low Voltage Electrospinning. <i>Polymers</i> , 2015, 7, 1577-1586.	2.0	21
105	Capillary number encouraged the construction of smart biomimetic eyes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5896-5902.	2.7	16
106	Mechanics of curvilinear electronics and optoelectronics. <i>Current Opinion in Solid State and Materials Science</i> , 2015, 19, 171-189.	5.6	36
107	Inorganic Materials and Assembly Techniques for Flexible and Stretchable Electronics. <i>Proceedings of the IEEE</i> , 2015, 103, 619-632.	16.4	58
108	Science, technology and the future of small autonomous drones. <i>Nature</i> , 2015, 521, 460-466.	13.7	908
109	Design and simulation of a new compound eye with a wide field of view. , 2015, , .		1
110	Spherical FAST corner detector. , 2015, , .		8
111	Analysis and characterization of high-resolution and high-aspect-ratio imaging fiber bundles. <i>Applied Optics</i> , 2015, 54, 9422.	2.1	6
112	Artificial compound eye inspired by imaging principle of <i>Xenos peckii</i> . , 2015, , .		3
113	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. <i>Nature Communications</i> , 2015, 6, 10310.	5.8	634
114	Recent advances on optoelectronic devices inspired by the compound eyes. , 2015, , .		0
115	Analysis of deformation of flexible hemispherical lens arrays based on soft elastomers. <i>Applied Optics</i> , 2015, 54, 8265.	2.1	1
116	Stretchable Graphene Thermistor with Tunable Thermal Index. <i>ACS Nano</i> , 2015, 9, 2130-2137.	7.3	293
117	Mechanics of stretchable electronics. <i>Current Opinion in Solid State and Materials Science</i> , 2015, 19, 160-170.	5.6	87
118	Towards an <i>Esox lucius</i> inspired multimodal robotic fish. <i>Science China Information Sciences</i> , 2015, 58, 1-13.	2.7	33
119	Enhanced Tolerance to Stretch-Induced Performance Degradation of Stretchable MnO ₂ -Based Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2569-2574.	4.0	65

#	ARTICLE	IF	CITATIONS
121	Multifunctional Microstructured Polymer Films for Boosting Solar Power Generation of Silicon-Based Photovoltaic Modules. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2349-2358.	4.0	28
122	Brittlestarâ€Inspired Microlens Arrays Made of Calcite Single Crystals. <i>Small</i> , 2015, 11, 1677-1682.	5.2	19
123	Mechanics and optics of stretchable elastomeric microlens array for artificial compound eye camera. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	41
124	A Stretchable Nanowire UVâ€Visâ€NIR Photodetector with High Performance. <i>Advanced Materials</i> , 2015, 27, 1712-1717.	11.1	129
125	Mechanics of stretchable batteries and supercapacitors. <i>Current Opinion in Solid State and Materials Science</i> , 2015, 19, 190-199.	5.6	173
126	Multiscale Ommatidial Arrays with Broadband and Omnidirectional Antireflection and Antifogging Properties by Sacrificial Layer Mediated Nanoimprinting. <i>ACS Nano</i> , 2015, 9, 1305-1314.	7.3	135
127	A Real-Time Multiaperture Omnidirectional Visual Sensor Based on an Interconnected Network of Smart Cameras. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015, 25, 314-324.	5.6	16
128	Mechanics for stretchable sensors. <i>Current Opinion in Solid State and Materials Science</i> , 2015, 19, 149-159.	5.6	70
129	A theoretical model of reversible adhesion in shape memory surface relief structures and its application in transfer printing. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 77, 27-42.	2.3	44
130	New faces of porous Prussian blue: interfacial assembly of integrated hetero-structures for sensing applications. <i>Chemical Society Reviews</i> , 2015, 44, 7997-8018.	18.7	240
131	Strain tunable optics of elastomeric microlens array. <i>Extreme Mechanics Letters</i> , 2015, 4, 118-123.	2.0	16
132	An artificial compound eye of photon Sieves. <i>Optics and Laser Technology</i> , 2015, 74, 93-96.	2.2	5
133	An artificial elementary eye with optic flow detection and compositional properties. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150414.	1.5	15
134	Solar power generation enhancement of dye-sensitized solar cells using hydrophobic and antireflective polymers with nanoholes. <i>RSC Advances</i> , 2015, 5, 61284-61289.	1.7	22
135	Processing and characterisation of IIâ€VI ZnCdMgSe thin film gain structures. <i>Thin Solid Films</i> , 2015, 590, 84-89.	0.8	7
136	Enhancement of light collection through flexible polymeric films patterned using self-assembled photonic crystals. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 265103.	1.3	6
137	Polarized Skylight Pattern-Based Approach to Attitude Determination. <i>IEEE Sensors Journal</i> , 2015, 15, 4917-4927.	2.4	16
138	Curvatureâ€Driven, Oneâ€Step Assembly of Reconfigurable Smectic Liquid Crystal â€Compound Eyeâ€Lenses. <i>Advanced Optical Materials</i> , 2015, 3, 1287-1292.	3.6	56

#	ARTICLE	IF	CITATIONS
139	Fabrication of a chirped artificial compound eye for endoscopic imaging fiber bundle by dose-modulated laser lithography and subsequent thermal reflow. <i>Optical Engineering</i> , 2015, 54, 033105.	0.5	11
140	Triboelectric sensor as self-powered signal reader for scanning probe surface topography imaging. <i>Nanotechnology</i> , 2015, 26, 165501.	1.3	15
141	Nanomembranes and soft fabrication methods for high performance, low cost energy technologies. , 2015, , .		0
142	Graphene-Based Bioinspired Compound Eyes for Programmable Focusing and Remote Actuation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21416-21422.	4.0	29
143	Inverted tetrahedron-pyramidal micropatterned polymer films for boosting light output power in flip-chip light-emitting diodes. <i>Optics Express</i> , 2015, 23, 9612.	1.7	4
144	Fabrication of embedded microball lens in PMMA with high repetition rate femtosecond fiber laser. <i>Optics Express</i> , 2015, 23, 17584.	1.7	22
145	Micro/nanoscale continuous printing: direct-writing of wavy micro/nano structures via electrospinning. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 87, 012018.	0.3	2
146	An image sensor based on optical Radon transform. <i>Computers and Graphics</i> , 2015, 53, 37-43.	1.4	2
147	Structural design and image processing of a spherical artificial compound eye. <i>Optik</i> , 2015, 126, 3099-3103.	1.4	18
148	Large-scale fabrication of micro-lens array by novel end-fly-cutting-servo diamond machining. <i>Optics Express</i> , 2015, 23, 20593.	1.7	75
149	Lateral buckling and mechanical stretchability of fractal interconnects partially bonded onto an elastomeric substrate. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	44
150	Bending behavior of a flexible single crystal nanomembrane photonic crystal cavity. , 2015, , .		0
151	VLSI-SoC: Internet of Things Foundations. <i>IFIP Advances in Information and Communication Technology</i> , 2015, , .	0.5	2
152	Multifunctional polymers with biomimetic compound architectures via nanoporous AAO films for efficient solar energy harvesting in dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 90103-90110.	1.7	16
153	Multiplex lithography for multilevel multiscale architectures and its application to polymer electrolyte membrane fuel cell. <i>Nature Communications</i> , 2015, 6, 8484.	5.8	69
154	Fabrication, characterization, and applications of microlenses. <i>Applied Optics</i> , 2015, 54, 7366.	2.1	63
155	Artificial inverted compound eye structured polymer films with light-harvesting and self-cleaning functions for encapsulated III-V solar cell applications. <i>RSC Advances</i> , 2015, 5, 60804-60813.	1.7	31
156	Soft Lithography Using Nectar Droplets. <i>Langmuir</i> , 2015, 31, 13155-13164.	1.6	11

#	ARTICLE	IF	CITATIONS
157	Optical performance improvement of semi-transparent metal film electrodes with biomimetic subwavelength gratings for high-performance optoelectronic device applications. RSC Advances, 2015, 5, 84865-84871.	1.7	6
158	High-performance fiber-shaped supercapacitors using carbon fiber thread (CFT)@polyaniline and functionalized CFT electrodes for wearable/stretchable electronics. Nano Energy, 2015, 11, 662-670.	8.2	134
159	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. Nano Energy, 2015, 11, 518-525.	8.2	248
160	Angle- and polarization-insensitive metamaterial absorber based on vertical and horizontal symmetric slotted sectors. Applied Optics, 2016, 55, 8301.	2.1	14
161	Semiconductor Nanomembrane-Based Light-Emitting and Photodetecting Devices. Photonics, 2016, 3, 40.	0.9	8
162	CMOS-Technology-Enabled Flexible and Stretchable Electronics for Internet of Everything Applications. Advanced Materials, 2016, 28, 4219-4249.	11.1	179
163	Three-Component Integrated Ultrathin Organic Photosensors for Plastic Optoelectronics. Advanced Materials, 2016, 28, 624-630.	11.1	48
164	Electrochemical Capacitors with High Output Voltages that Mimic Electric Eels. Advanced Materials, 2016, 28, 2070-2076.	11.1	119
165	Bioinspired Interfacial Materials with Enhanced Drop Mobility: From Fundamentals to Multifunctional Applications. Small, 2016, 12, 1825-1839.	5.2	193
166	Dragonfly-Eye-Inspired Artificial Compound Eyes with Sophisticated Imaging. Advanced Functional Materials, 2016, 26, 1995-2001.	7.8	102
167	Monocular distance estimation with optical flow maneuvers and efference copies: a stability-based strategy. Bioinspiration and Biomimetics, 2016, 11, 016004.	1.5	36
168	Direct Laser Writing-Based Programmable Transfer Printing via Bioinspired Shape Memory Reversible Adhesive. ACS Applied Materials & Interfaces, 2016, 8, 35628-35633.	4.0	97
169	A novel lobster-eye imaging system based on Schmidt-type objective for X-ray-backscattering inspection. Review of Scientific Instruments, 2016, 87, 073103.	0.6	7
170	Third-Order Polynomials Model for Analyzing Multilayer Hard/Soft Materials in Flexible Electronics. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	1.1	16
171	Design and fabrication of silicon-tessellated structures for monocentric imagers. Microsystems and Nanoengineering, 2016, 2, 16019.	3.4	23
172	Deformable printed circuit boards that enable metamorphic electronics. NPG Asia Materials, 2016, 8, e336-e336.	3.8	18
173	Solution-processed image sensors on flexible substrates. Flexible and Printed Electronics, 2016, 1, 043001.	1.5	45
174	Discrete spherical Harris corner detector. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
175	Segmentation Fusion Techniques with Application to Plenoptic Images: A Survey.. Journal of Physics: Conference Series, 2016, 705, 012026.	0.3	0
176	Fly compound-eye inspired inorganic nanostructures with extraordinary visible-light responses. Materials Today Chemistry, 2016, 1-2, 84-89.	1.7	22
177	Spherical FSO receivers for UAV communication: geometric coverage models. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2157-2167.	2.6	27
178	High performance high-Î ⁹ /metal gate complementary metal oxide semiconductor circuit element on flexible silicon. Applied Physics Letters, 2016, 108, .	1.5	15
179	Stretchable Thin Film Materials: Fabrication, Application, and Mechanics. Journal of Electronic Packaging, Transactions of the ASME, 2016, 138, .	1.2	68
180	Interfacial Delamination of Inorganic Films on Viscoelastic Substrates. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	1.1	13
181	Flexible Thin-Film InGaAs Photodiode Focal Plane Array. ACS Photonics, 2016, 3, 670-676.	3.2	38
182	Design Optimization of Thin-Film Transistors Based on a Metal-Substrate-Semiconductor Architecture for High DC Voltage Sensing. IEEE Transactions on Electron Devices, 2016, 63, 1696-1703.	1.6	6
183	Stretchable Bioelectronics for Medical Devices and Systems. Microsystems and Nanosystems, 2016, , .	0.1	90
184	High-Performance Wearable Bioelectronics Integrated with Functional Nanomaterials. Microsystems and Nanosystems, 2016, , 151-171.	0.1	2
185	3D printed bionic nanodevices. Nano Today, 2016, 11, 330-350.	6.2	116
186	Renewable smart materials. Smart Materials and Structures, 2016, 25, 073001.	1.8	43
187	Soft, thin skin-mounted power management systems and their use in wireless thermography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6131-6136.	3.3	139
188	Design of super-conformable, foldable materials via fractal cuts and lattice kirigami. MRS Bulletin, 2016, 41, 130-138.	1.7	54
189	Stimuli-Directing Self-Organized 3D Liquid-Crystalline Nanostructures: From Materials Design to Photonic Applications. Advanced Functional Materials, 2016, 26, 10-28.	7.8	264
190	Individually tunable liquid lens arrays using transparent graphene for compound eye applications. , 2016, , .		7
191	Ultrathin camera inspired by visual system of Xenos peckii. , 2016, , .		1
192	Mechanics and Designs of Stretchable Bioelectronics. Microsystems and Nanosystems, 2016, , 53-68.	0.1	3

#	ARTICLE	IF	CITATIONS
193	CH ₃ NH ₃ PbI ₃ planar perovskite solar cells with antireflection and self-cleaning function layers. Journal of Materials Chemistry A, 2016, 4, 7573-7579.	5.2	78
194	Flexible infrared detectors based on p-n junctions of multi-walled carbon nanotubes. Nanoscale, 2016, 8, 9592-9599.	2.8	17
195	Characteristics of corneal lens chitin in dragonfly compound eyes. International Journal of Biological Macromolecules, 2016, 89, 54-61.	3.6	15
196	Parameter correction method for dual position-sensitive-detector-based unit. Applied Optics, 2016, 55, 4073.	2.1	4
197	Transparent and haze wood composites for highly efficient broadband light management in solar cells. Nano Energy, 2016, 26, 332-339.	8.2	222
198	Meters-Long Flexible CoNiO ₂ @Nanowires@Carbon-Fibers Based Wire-Supercapacitors for Wearable Electronics. Advanced Materials Technologies, 2016, 1, 1600142.	3.0	69
199	Electric Eel-Inspired Mechanically Durable and Super-Stretchable Nanogenerator for Deformable Power Source and Fully Autonomous Conformable Electronic-Skin Applications. Advanced Materials, 2016, 28, 10024-10032.	11.1	273
200	Photonics-enhanced smart imaging systems. Proceedings of SPIE, 2016, , .	0.8	0
201	Thermal-tolerant polymers with antireflective and hydrophobic grooved subwavelength grating surfaces for high-performance optics. RSC Advances, 2016, 6, 79755-79762.	1.7	9
202	Large Scale Flow-Mediated Formation and Potential Applications of Surface Nanodroplets. ACS Applied Materials & Interfaces, 2016, 8, 22679-22687.	4.0	29
203	Hierarchical structured polymers for light-absorption enhancement of silicon-based solar power systems. RSC Advances, 2016, 6, 55159-55166.	1.7	13
204	3D printed micro-optics. Nature Photonics, 2016, 10, 499-501.	15.6	35
205	Flexible Phototransistors Based on Single-Crystalline Silicon Nanomembranes. Advanced Optical Materials, 2016, 4, 120-125.	3.6	76
206	Flexible Photodetectors Based on 1D Inorganic Nanostructures. Advanced Science, 2016, 3, 1500287.	5.6	131
207	Ultra-broadband infrared metasurface absorber. Optics Express, 2016, 24, 20586.	1.7	169
208	Biomimetic optics: visual systems. Journal of Modern Optics, 0, , 1-26.	0.6	11
209	F-number matching method in light field microscopy using an elastic micro lens array. Optics Letters, 2016, 41, 2751.	1.7	11
210	Robust and stretchable indium gallium zinc oxide-based electronic textiles formed by cilia-assisted transfer printing. Nature Communications, 2016, 7, 11477.	5.8	73

#	ARTICLE	IF	CITATIONS
211	Guided Folding of Nematic Liquid Crystal Elastomer Sheets into 3D via Patterned 1D Microchannels. <i>Advanced Materials</i> , 2016, 28, 9637-9643.	11.1	131
212	Target detection in insects: optical, neural and behavioral optimizations. <i>Current Opinion in Neurobiology</i> , 2016, 41, 122-128.	2.0	38
214	Adaptive Graded Index Photonic Crystal Lens Design via Nematic Liquid Crystals. <i>IEEE Journal of Quantum Electronics</i> , 2016, 52, 1-7.	1.0	7
216	Flexible and Stretchable Oxide Electronics. <i>Advanced Electronic Materials</i> , 2016, 2, 1600105.	2.6	42
217	Modeling and simulations on retina-like sensors based on curved surface. <i>Applied Optics</i> , 2016, 55, 5738.	2.1	9
218	Flexible chalcogenide glass microring resonator for mid-infrared emission. , 2016, , .		1
219	Self-Assembled Hierarchical Arrays for Colored Retroreflective Coatings. <i>Langmuir</i> , 2016, 32, 12869-12875.	1.6	9
220	Ultra-high-throughput Production of III-V/Si Wafer for Electronic and Photonic Applications. <i>Scientific Reports</i> , 2016, 6, 20610.	1.6	72
221	Multimaterial 4D Printing with Tailorable Shape Memory Polymers. <i>Scientific Reports</i> , 2016, 6, 31110.	1.6	751
222	Numerical comparison of scalar and vector methods of digital hologram compression. <i>Proceedings of SPIE</i> , 2016, , .	0.8	7
223	Recent Advances in Flexible and Stretchable Bioâ€Electronic Devices Integrated with Nanomaterials. <i>Advanced Materials</i> , 2016, 28, 4203-4218.	11.1	894
224	Capacitance Characterization of Elastomeric Dielectrics for Applications in Intrinsically Stretchable Thin Film Transistors. <i>Advanced Functional Materials</i> , 2016, 26, 4680-4686.	7.8	77
225	Wide-area and omnidirectional optical detector arrays using modular optical elements. <i>Applied Optics</i> , 2016, 55, 4791.	2.1	6
226	Mechanics of bioinspired imaging systems. <i>Theoretical and Applied Mechanics Letters</i> , 2016, 6, 11-20.	1.3	20
227	A finite deformation model of planar serpentine interconnects for stretchable electronics. <i>International Journal of Solids and Structures</i> , 2016, 91, 46-54.	1.3	83
228	Moth-Eye TiO ₂ Layer for Improving Light Harvesting Efficiency in Perovskite Solar Cells. <i>Small</i> , 2016, 12, 2443-2449.	5.2	142
229	Aligned Singleâ€Crystalline Perovskite Microwire Arrays for Highâ€Performance Flexible Image Sensors with Longâ€Term Stability. <i>Advanced Materials</i> , 2016, 28, 2201-2208.	11.1	346
230	Flexible Near-Field Nanopatterning with Ultrathin, Conformal Phase Masks on Nonplanar Substrates for Biomimetic Hierarchical Photonic Structures. <i>ACS Nano</i> , 2016, 10, 4609-4617.	7.3	58

#	ARTICLE	IF	CITATIONS
231	Photosensitive and Flexible Organic Field-Effect Transistors Based on Interface Trapping Effect and Their Application in 2D Imaging Array. <i>Advanced Science</i> , 2016, 3, 1500435.	5.6	107
232	Stress analysis for nanomembranes under stamp compression. <i>Extreme Mechanics Letters</i> , 2016, 7, 136-144.	2.0	2
233	Aerodynamics, sensing and control of insect-scale flapping-wing flight. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150712.	1.0	104
234	COMPU-EYE: a high resolution computational compound eye. <i>Optics Express</i> , 2016, 24, 2013.	1.7	34
235	SEM characterization of anatomical variation in chitin organization in insect and arthropod cuticles. <i>Micron</i> , 2016, 82, 74-85.	1.1	60
236	Large-area multilayer infrared nano-wire grid polarizers. <i>Infrared Physics and Technology</i> , 2016, 75, 77-81.	1.3	12
237	Fabrication of ordered Si nanopillar arrays for ultralow reflectivity. <i>RSC Advances</i> , 2016, 6, 15803-15807.	1.7	13
238	Mechanics and thermal management of stretchable inorganic electronics. <i>National Science Review</i> , 2016, 3, 128-143.	4.6	112
239	A multifunctional hierarchical nano/micro-structured silicon surface with omnidirectional antireflection and superhydrophilicity via an anodic aluminum oxide etch mask. <i>RSC Advances</i> , 2016, 6, 3764-3773.	1.7	25
240	Magnetic Control of the Light Reflection Anisotropy in a Biogenic Guanine Microcrystal Platelet. <i>Langmuir</i> , 2016, 32, 180-187.	1.6	29
241	Ray-matrix analysis for integrative ommatidium of bionic optical compound eyes. <i>Optik</i> , 2016, 127, 60-62.	1.4	0
242	Twofold Self-Assembling of Nanocrystals Into Nanocomposite Polymer. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 1-7.	1.9	7
243	Holographic Graph Neuron: A Bioinspired Architecture for Pattern Processing. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 1250-1262.	7.2	42
244	An Insect Eye Inspired Miniaturized Multi-Camera System for Endoscopic Imaging. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 212-224.	2.7	27
245	Progress and Prospects in Stretchable Electroluminescent Devices. <i>Nanophotonics</i> , 2017, 6, 435-451.	2.9	35
246	Optimal Design and Simulation of Sensor Arrays for Solar Motion Estimation. <i>IEEE Sensors Journal</i> , 2017, 17, 1673-1680.	2.4	7
247	What Is Morphological Computation? On How the Body Contributes to Cognition and Control. <i>Artificial Life</i> , 2017, 23, 1-24.	1.0	108
248	Self-powered multifunctional UV and IR photodetector as an artificial electronic eye. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1436-1442.	2.7	45

#	ARTICLE	IF	CITATIONS
249	Post-Buckling Analysis of Curved Beams. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	13
250	From imitation to inspiration. EMBO Reports, 2017, 18, 363-366.	2.0	4
251	Charge-integrating organic heterojunction phototransistors for wide-dynamic-range image sensors. Nature Photonics, 2017, 11, 193-199.	15.6	128
252	Elasticity Solutions to Nonbuckling Serpentine Ribbons. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	37
253	Ferroelectric Zinc Oxide Nanowire Embedded Flexible Sensor for Motion and Temperature Sensing. ACS Applied Materials & Interfaces, 2017, 9, 9233-9238.	4.0	58
254	A biologically-inspired electro-chemical reference electrode. , 2017, , .		0
255	Highly Stretchable and UV Curable Elastomers for Digital Light Processing Based 3D Printing. Advanced Materials, 2017, 29, 1606000.	11.1	480
256	Polymerization-Induced Growth of Microprotuberance on the Photocuring Coating. Langmuir, 2017, 33, 2027-2032.	1.6	9
258	A study on curved surface laser ablation using beam profile approach. International Journal of Additive and Subtractive Materials Manufacturing, 2017, 1, 42.	0.2	0
259	Design and application of J-shaped™ stress-strain behavior in stretchable electronics: a review. Lab on A Chip, 2017, 17, 1689-1704.	3.1	140
260	Progress on bioinspired, biomimetic, and bioreplication routes to harvest solar energy. Applied Physics Reviews, 2017, 4, .	5.5	28
261	Simple Ears Inspire Frequency Agility in an Engineered Acoustic Sensor System. IEEE Sensors Journal, 2017, 17, 7298-7305.	2.4	6
262	A Transparent, Highly Stretchable, Autonomous Self-Healing Poly(dimethyl siloxane) Elastomer. Macromolecular Rapid Communications, 2017, 38, 1700110.	2.0	165
263	Needs and Enabling Technologies for Stretchable Electronics Commercialization. MRS Advances, 2017, 2, 1721-1729.	0.5	11
264	High performance flexible copper indium gallium selenide core-shell nanorod array photodetectors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	8
265	Fabrication of a Microlens Array with Controlled Curvature by Thermally Curving Photosensitive Gel Film beneath Microholes. ACS Applied Materials & Interfaces, 2017, 9, 16604-16609.	4.0	31
266	Toward individually tunable compound eyes with transparent graphene electrode. Bioinspiration and Biomimetics, 2017, 12, 046002.	1.5	17
267	Energy harvesting and storage in 1D devices. Nature Reviews Materials, 2017, 2, .	23.3	421

#	ARTICLE	IF	CITATIONS
268	Wearable smart sensor systems integrated on soft contact lenses for wireless ocular diagnostics. Nature Communications, 2017, 8, 14997.	5.8	633
269	Flexible electronic eardrum. Nano Research, 2017, 10, 2683-2691.	5.8	35
270	Photoactive PANI/TiO ₂ /Si composite coatings with 3D bio-inspired structures. New Journal of Chemistry, 2017, 41, 6965-6968.	1.4	3
271	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. Angewandte Chemie - International Edition, 2017, 56, 9141-9145.	7.2	458
272	Robustness of an artificially tailored fisheye imaging system with a curvilinear image surface. Optics and Laser Technology, 2017, 96, 50-57.	2.2	21
273	Flexible Nanowire Cluster as a Wearable Colorimetric Humidity Sensor. Small, 2017, 13, 1700109.	5.2	46
274	A Retina-Like Dual Band Organic Photosensor Array for Filter-Free Near-Infrared-to-Visible Memory Operations. Advanced Materials, 2017, 29, 1701772.	11.1	95
275	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. Angewandte Chemie, 2017, 129, 9269-9273.	1.6	58
276	Direct writing of large-area micro/nano-structural arrays on single crystalline germanium substrates using femtosecond lasers. Applied Physics Letters, 2017, 110, .	1.5	9
277	Functional flexible and wearable supercapacitors. Journal Physics D: Applied Physics, 2017, 50, 273001.	1.3	31
278	The fabrication and characterization of flexible single-crystalline silicon and germanium p-intrinsic-n photodetectors on plastic substrates. Applied Physics Letters, 2017, 110, .	1.5	14
279	Animal coloration research: why it matters. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160333.	1.8	33
280	Nanomanufacturing—Perspective and applications. CIRP Annals - Manufacturing Technology, 2017, 66, 683-705.	1.7	118
281	Assembly of Heterogeneous Materials for Biology and Electronics: From Bio-Inspiration to Bio-Integration. Journal of Electronic Packaging, Transactions of the ASME, 2017, 139, .	1.2	12
282	Design and fabrication of a multi-focusing artificial compound eyes with negative meniscus substrate. Journal of Micromechanics and Microengineering, 2017, 27, 045011.	1.5	18
283	In-Plane Deformation Mechanics for Highly Stretchable Electronics. Advanced Materials, 2017, 29, 1604989.	11.1	141
284	Shear deformation dominates in the soft adhesive layers of the laminated structure of flexible electronics. International Journal of Solids and Structures, 2017, 110-111, 305-314.	1.3	33
285	Toward a Flexible, Scalable, and Transparent Thin-Film Camera. Proceedings of the IEEE, 2017, 105, 960-969.	16.4	8

#	ARTICLE	IF	CITATIONS
286	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9455-E9464.	3.3	129
287	An Omnidirectionally Stretchable Photodetector Based on Organic-Inorganic Heterojunctions. ACS Applied Materials & Interfaces, 2017, 9, 35958-35967.	4.0	49
288	Lattice plasmon effect on imaging resolution: Point-spread function enhancing. Sensors and Actuators A: Physical, 2017, 267, 21-29.	2.0	3
289	Buckling analysis in stretchable electronics. Npj Flexible Electronics, 2017, 1, .	5.1	57
290	Nature-Inspired Structural Materials for Flexible Electronic Devices. Chemical Reviews, 2017, 117, 12893-12941.	23.0	578
291	Buckling analysis of stiff thin films suspended on a substrate with tripod surface relief structure. Applied Physics Letters, 2017, 111, .	1.5	13
292	Temperature dependent evolution of wrinkled single-crystal silicon ribbons on shape memory polymers. Soft Matter, 2017, 13, 7625-7632.	1.2	12
293	3D-Printed Self-Folding Electronics. ACS Applied Materials & Interfaces, 2017, 9, 32290-32298.	4.0	90
294	Conformal Electronics Wrapped Around Daily Life Objects Using an Original Method: Water Transfer Printing. ACS Applied Materials & Interfaces, 2017, 9, 29424-29429.	4.0	51
295	Hemispherical array of sensors with contractively wrapped polymer petals for flow sensing. Smart Materials and Structures, 2017, 26, 115008.	1.8	3
296	A lightweight, inexpensive robotic system for insect vision. Arthropod Structure and Development, 2017, 46, 689-702.	0.8	5
297	Waveguide Encoded Lattices (WELs): Slim Polymer Films with Panoramic Fields of View (FOV) and Multiple Imaging Functionality. Advanced Functional Materials, 2017, 27, 1702242.	7.8	16
298	State-of-the-Art Multi-Camera Systems. , 2017, , 13-31.		3
299	Highly Bright Flexible Electroluminescent Devices with Retroreflective Electrodes. Advanced Materials Technologies, 2017, 2, 1700040.	3.0	18
300	Structure and ultrastructure of eyes and brains of <i>Thalia democratica</i> (Thaliacea, Tunicata), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	10
301	Enhanced Light Harvesting in Perovskite Solar Cells by a Bioinspired Nanostructured Back Electrode. Advanced Energy Materials, 2017, 7, 1700492.	10.2	79
302	Effects of pre-buckling on the bending of organic electronic structures. AIP Advances, 2017, 7, .	0.6	5
303	Experimental and Theoretical Studies of Serpentine Interconnects on Ultrathin Elastomers for Stretchable Electronics. Advanced Functional Materials, 2017, 27, 1702589.	7.8	111

#	ARTICLE	IF	CITATIONS
304	3D Metamorphic Stretchable Microphone Arrays. <i>Advanced Materials Technologies</i> , 2017, 2, 1700131.	3.0	13
305	Perspective and potential of smart optical materials. <i>Smart Materials and Structures</i> , 2017, 26, 093001.	1.8	26
306	Ultrasensitive broadband phototransistors based on perovskite/organic-semiconductor vertical heterojunctions. <i>Light: Science and Applications</i> , 2017, 6, e17023-e17023.	7.7	272
307	Vision for navigation: What can we learn from ants?. <i>Arthropod Structure and Development</i> , 2017, 46, 718-722.	0.8	30
308	Buckling of a stiff thin film on an elastic graded compliant substrate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170410.	1.0	8
310	Lead Iodide Microcrystals in Carbon Composite Matrix for Low Power Photodetectors. <i>ChemistrySelect</i> , 2017, 2, 11025-11029.	0.7	11
311	Mechanical response of spiral interconnect arrays for highly stretchable electronics. <i>Applied Physics Letters</i> , 2017, 111, 214102.	1.5	25
312	Origami silicon optoelectronics for hemispherical electronic eye systems. <i>Nature Communications</i> , 2017, 8, 1782.	5.8	177
313	Human eye-inspired soft optoelectronic device using high-density MoS ₂ -graphene curved image sensor array. <i>Nature Communications</i> , 2017, 8, 1664.	5.8	381
314	Reconfigurable systems for multifunctional electronics. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	27
315	Wide Incidence Angle-Insensitive Metamaterial Absorber for Both TE and TM Polarization using Eight-Circular-Sector. <i>Scientific Reports</i> , 2017, 7, 3204.	1.6	77
316	Feasibility study of the novel quasi-elliptical tool servo for vibration suppression in the turning of micro-lens arrays. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 122, 98-105.	6.2	31
317	Recent Progress on Stretchable Electronic Devices with Intrinsically Stretchable Components. <i>Advanced Materials</i> , 2017, 29, 1603167.	11.1	367
318	Dissolvable tattoo sensors: from science fiction to a viable technology. <i>Physica Scripta</i> , 2017, 92, 013001.	1.2	20
319	Array of Organic Field-Effect Transistor for Advanced Sensing. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2017, 7, 92-101.	2.7	14
321	Artificial compound eye: a survey of the state-of-the-art. <i>Artificial Intelligence Review</i> , 2017, 48, 573-603.	9.7	45
322	Tailoring Calcium Carbonate to Serve as Optical Functional Material: Examples from Biology and Materials Science. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600250.	1.9	8
323	Broadband omnidirectional light detection in flexible and hierarchical ZnO/Si heterojunction photodiodes. <i>Nano Research</i> , 2017, 10, 22-36.	5.8	66

#	ARTICLE	IF	CITATIONS
324	Light-weight semantic segmentation for compound images. , 2017, , .		1
325	Tracking on full-view image for camera motion estimation based on spherical model. , 2017, , .		0
326	High-Resolution Spin-Coating Patterning of Perovskite Thin Films for a Multiplexed Image Sensor Array. Advanced Materials, 2017, 29, 1702902.	11.1	148
327	CMOS compatible fabrication of micro, nano convex silicon lens arrays by conformal chemical vapor deposition. Optics Express, 2017, 25, 3069.	1.7	29
328	Hybrid imprinting process to fabricate a multi-layer compound eye for multispectral imaging. Optics Express, 2017, 25, 4180.	1.7	20
329	Highly curved image sensors: a practical approach for improved optical performance. Optics Express, 2017, 25, 13010.	1.7	86
330	Nanoapertures with ordered rotations: symmetry transformation and wide-angle flat lensing. Optics Express, 2017, 25, 31471.	1.7	114
331	SCECam: a spherical compound eye camera for fast location and recognition of objects at a large field of view. Optics Express, 2017, 25, 32333.	1.7	46
332	Bio-inspired color-polarization imager for real-time in situ imaging. Optica, 2017, 4, 1263.	4.8	108
333	Parametric Optimization of Lateral NIPIN Phototransistors for Flexible Image Sensors. Sensors, 2017, 17, 1774.	2.1	14
334	Ultra-Stretchable Interconnects for High-Density Stretchable Electronics. Micromachines, 2017, 8, 277.	1.4	18
335	Time-of-Travel Methods for Measuring Optical Flow on Board a Micro Flying Robot. Sensors, 2017, 17, 571.	2.1	15
336	Estimating objectness using a compound eye camera. , 2017, , .		1
337	ULTRA-BROADBAND ABSORPTION WITH GRADIENT PYRAMIDAL METAMATERIALS. Progress in Electromagnetics Research C, 2017, 78, 217-224.	0.6	6
338	3D printed stretchable capacitive sensors for highly sensitive tactile and electrochemical sensing. Nanotechnology, 2018, 29, 185501.	1.3	57
339	Printable Superelastic Conductors with Extreme Stretchability and Robust Cycling Endurance Enabled by Liquid-Metal Particles. Advanced Materials, 2018, 30, e1706157.	11.1	208
341	Large-Scale Direct-Writing of Aligned Nanofibers for Flexible Electronics. Small, 2018, 14, e1703521.	5.2	126
343	Diamond turning of micro-lens array on the roller featuring high aspect ratio. International Journal of Advanced Manufacturing Technology, 2018, 96, 2463-2469.	1.5	8

#	ARTICLE	IF	CITATIONS
344	Multi-layer embedded carbon fibres as highly compliant and stretchable interconnects. Flexible and Printed Electronics, 2018, 3, 015010.	1.5	1
345	Instant Locking of Molecular Ordering in Liquid Crystal Elastomers by Oxygen-Mediated Thiol-Acrylate Click Reactions. Angewandte Chemie - International Edition, 2018, 57, 5665-5668.	7.2	74
346	A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers. Advanced Electronic Materials, 2018, 4, 1700601.	2.6	22
347	Fabrication of Microlens Array and Its Application: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	1.9	101
348	Two-Dimensional Materials for Thermal Management Applications. Joule, 2018, 2, 442-463.	11.7	353
349	Deformable conductors for human-machine interface. Materials Today, 2018, 21, 508-526.	8.3	163
350	Enhancing the imaging quality and fabrication efficiency of bionic compound eyes using a sandwich structure. Journal of Modern Optics, 2018, 65, 1253-1260.	0.6	5
351	Rehealable, fully recyclable, and malleable electronic skin enabled by dynamic covalent thermoset nanocomposite. Science Advances, 2018, 4, eaaq0508.	4.7	375
352	Design and fabrication of a multifocal bionic compound eye for imaging. Bioinspiration and Biomimetics, 2018, 13, 026012.	1.5	16
353	Mining the Smartness of Insect Ultrastructures for Advanced Imaging and Illumination. Advanced Functional Materials, 2018, 28, 1705912.	7.8	44
354	Research Advances of Bio-Inspired Carbon Nanotubes-Based Sensors. MRS Advances, 2018, 3, 1-11.	0.5	8
355	Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses. Advanced Functional Materials, 2018, 28, 1705202.	7.8	174
356	Depth-estimation-enabled compound eyes. Optics Communications, 2018, 412, 178-185.	1.0	14
357	Single-Shot Laser Additive Manufacturing of High Fill-Factor Microlens Arrays. Advanced Optical Materials, 2018, 6, 1701190.	3.6	50
358	Merging Biology and Solid-State Lighting: Recent Advances in Light-Emitting Diodes Based on Biological Materials. Advanced Functional Materials, 2018, 28, 1707011.	7.8	63
359	Instant Locking of Molecular Ordering in Liquid Crystal Elastomers by Oxygen-Mediated Thiol-Acrylate Click Reactions. Angewandte Chemie, 2018, 130, 5767-5770.	1.6	26
360	Silicones for Stretchable and Durable Soft Devices: Beyond Sylgard-184. ACS Applied Materials & Interfaces, 2018, 10, 11261-11268.	4.0	149
361	Recent advances in imaging systems and photonic nanostructures inspired by insect eye geometry. Applied Spectroscopy Reviews, 2018, 53, 112-128.	3.4	16

#	ARTICLE	IF	CITATIONS
362	Design and application of flexible insert for microinjection compression molding polymer microlens arrays with tunable height. <i>Polymer Engineering and Science</i> , 2018, 58, 213-219.	1.5	2
363	Soft electronics on asymmetrical porous conducting membranes by molecular layer-by-layer assembly. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 916-925.	4.0	17
364	Atomic force microscopy and nanoindentation investigation of polydimethylsiloxane elastomeric substrate compliancy for various sputtered thin film morphologies. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 725-737.	2.1	9
365	Dip-coating processed sponge-based electrodes for stretchable Zn-MnO ₂ batteries. <i>Nano Research</i> , 2018, 11, 1554-1562.	5.8	51
366	Tissue- <i>electronics</i> interfaces: from implantable devices to engineered tissues. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	372
367	Bio- <i>inspired</i> Photonic Materials: Prototypes and Structural Effect Designs for Applications in Solar Energy Manipulation. <i>Advanced Functional Materials</i> , 2018, 28, 1705309.	7.8	117
368	A spring-mass system with elastomeric beams and stretchable interconnects. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 014003.	1.5	1
369	Rapid fabrication of curved microlens array using the 3D printing mold. <i>Optik</i> , 2018, 156, 556-563.	1.4	14
370	A variable resolution feedback improving the performances of object detection and recognition. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2018, 232, 417-427.	0.7	2
371	Fabrication of Si/graphene/Si Double Heterostructures by Semiconductor Wafer Bonding towards Future Applications in Optoelectronics. <i>Nanomaterials</i> , 2018, 8, 1048.	1.9	10
372	Numerical study of an electrowetting liquid microlens. <i>AIP Advances</i> , 2018, 8, 115035.	0.6	4
373	An analytic model of two-level compressive buckling with applications in the assembly of free-standing 3D mesostructures. <i>Soft Matter</i> , 2018, 14, 8828-8837.	1.2	10
374	Sandwich structured poly(vinylidene fluoride)/polyacrylate elastomers with significantly enhanced electric displacement and energy density. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24367-24377.	5.2	54
375	Stretchable organic optoelectronic sensorimotor synapse. <i>Science Advances</i> , 2018, 4, eaat7387.	4.7	359
376	Ultrathin Air-Stable n-Type Organic Phototransistor Array for Conformal Optoelectronics. <i>Scientific Reports</i> , 2018, 8, 16612.	1.6	25
377	Xenos peckii vision inspires an ultrathin digital camera. <i>Light: Science and Applications</i> , 2018, 7, 80.	7.7	54
378	Stretchability of Archimedean-Spiral Interconnects Design. , 2018, , .		3
379	Insect-inspired vision for autonomous vehicles. <i>Current Opinion in Insect Science</i> , 2018, 30, 46-51.	2.2	12

#	ARTICLE	IF	CITATIONS
380	The Conformal Design of an Island-Bridge Structure on a Non-Developable Surface for Stretchable Electronics. <i>Micromachines</i> , 2018, 9, 392.	1.4	33
381	Fully spherical stretchable silicon photodiodes array for simultaneous 360 imaging. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	9
382	Taking Inspiration from Flying Insects to Navigate inside Buildings. , 2018, , .		0
383	Additive manufacturing: state of the art and potential for insect science. <i>Current Opinion in Insect Science</i> , 2018, 30, 79-85.	2.2	7
384	Transfer printing techniques for flexible and stretchable inorganic electronics. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	206
385	Recent Progress in Biomimetic Additive Manufacturing Technology: From Materials to Functional Structures. <i>Advanced Materials</i> , 2018, 30, e1706539.	11.1	325
387	Systematic study on the mechanical and electric behaviors of the nonbuckling interconnect design of stretchable electronics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	2.0	7
388	Spectral Sensor Inspired by Cone Photoreceptors and Ion Channels without External Power. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34385-34391.	4.0	4
389	Utilization of Resist Stencil Lithography for Multidimensional Fabrication on a Curved Surface. <i>ACS Nano</i> , 2018, 12, 9626-9632.	7.3	13
390	High Performance, Biocompatible Dielectric Thin-Film Optical Filters Integrated with Flexible Substrates and Microscale Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800146.	3.6	25
391	An intrinsically compressible and stretchable all-in-one configured supercapacitor. <i>Chemical Communications</i> , 2018, 54, 6200-6203.	2.2	61
392	It's About Making Surfaces Invisible. <i>Resonance</i> , 2018, 23, 423-438.	0.2	0
393	Programmable localized wrinkling of thin films on shape memory polymers with application in nonuniform optical gratings. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	11
394	Semiconductor Nanomembrane Materials for High-Performance Soft Electronic Devices. <i>Journal of the American Chemical Society</i> , 2018, 140, 9001-9019.	6.6	34
395	Improved light harvesting efficiency of semitransparent organic solar cells enabled by broadband/omnidirectional subwavelength antireflective architectures. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14769-14779.	5.2	37
396	Plasmonic System as a Compound Eye: Image Point-Spread Function Enhancing by Entanglement. <i>IEEE Sensors Journal</i> , 2018, 18, 5723-5731.	2.4	6
397	Electrical characteristics of silicon nanowire CMOS inverters under illumination. <i>Optics Express</i> , 2018, 26, 3527.	1.7	5
398	Catadioptric planar compound eye with large field of view. <i>Optics Express</i> , 2018, 26, 12455.	1.7	15

#	ARTICLE	IF	CITATIONS
399	Bio-inspired imager improves sensitivity in near-infrared fluorescence image-guided surgery. <i>Optica</i> , 2018, 5, 413.	4.8	37
400	Small-scale Biological and Artificial Multidimensional Sensors for 3D Sensing. <i>Small</i> , 2018, 14, e1801145.	5.2	16
401	Low-Power Monolithically Stacked Organic Photodiode-Blocking Diode Imager by Turn-On Voltage Engineering. <i>Advanced Electronic Materials</i> , 2018, 4, 1800311.	2.6	18
402	A Hybrid Bionic Image Sensor Achieving FOV Extension and Foveated Imaging. <i>Sensors</i> , 2018, 18, 1042.	2.1	15
403	In-plane and out-of-plane structural response of spiral interconnects for highly stretchable electronics. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	15
404	Fabrication of Bioinspired Hierarchical Functional Structures by Using Honeycomb Films as Templates. <i>Advanced Functional Materials</i> , 2018, 28, 1803194.	7.8	28
405	Fabrication and Characterization of Inhomogeneous Curved Artificial Compound Eye. <i>Micromachines</i> , 2018, 9, 238.	1.4	6
406	The Design and Positioning Method of a Flexible Zoom Artificial Compound Eye. <i>Micromachines</i> , 2018, 9, 319.	1.4	11
407	Insect-Mimetic Imaging System Based on a Microlens Array Fabricated by a Patterned-Layer Integrating Soft Lithography Process. <i>Sensors</i> , 2018, 18, 2011.	2.1	5
408	Perovskite Single-Crystal Microarrays for Efficient Photovoltaic Devices. <i>Chemistry of Materials</i> , 2018, 30, 4590-4596.	3.2	33
409	Fabrication of Flexible Image Sensor Based on Lateral NIPIN Phototransistors. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	0
410	Addressing Unmet Clinical Needs with 3D Printing Technologies. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800417.	3.9	70
411	4D Printed Actuators with Soft-Robotic Functions. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700710.	2.0	268
412	Quantum eye: Lattice plasmon effect on quantum fluctuations and photon detection. <i>Annals of Physics</i> , 2018, 394, 162-178.	1.0	7
413	Transparent In-Ga-Zn-O field effect glucose sensors fabricated directly on highly curved substrates. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 123-128.	4.0	10
414	Nanofabrication of Conductive Metallic Structures on Elastomeric Materials. <i>Scientific Reports</i> , 2018, 8, 6607.	1.6	8
415	Soft Electronically Functional Polymeric Composite Materials for a Flexible and Stretchable Digital Future. <i>Advanced Materials</i> , 2018, 30, e1802560.	11.1	140
416	Light extraction enhancement and directional control of scintillator by using microlens arrays. <i>Optics Express</i> , 2018, 26, 23132.	1.7	17

#	ARTICLE	IF	CITATIONS
417	3D Printed Polymer Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1803980.	11.1	113
418	Colored, Daytime Radiative Coolers with Thin-Film Resonators for Aesthetic Purposes. <i>Advanced Optical Materials</i> , 2018, 6, 1800707.	3.6	116
419	Reducing defocus aberration of a compound and human hybrid eye using liquid lens. <i>Applied Optics</i> , 2018, 57, 1679.	0.9	11
420	Microgel-Enhanced Double Network Hydrogel Electrode with High Conductivity and Stability for Intrinsically Stretchable and Flexible All-Gel-State Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19323-19330.	4.0	62
421	Overlayer induced air gap acting as a responsivity amplifier for majority carrier graphene-insulator-silicon photodetectors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6958-6965.	2.7	11
422	A Bezel-Less Tetrahedral Image Sensor Formed by Solvent-Assisted Plasticization and Transformation of an Acrylonitrile Butadiene Styrene Framework. <i>Advanced Materials</i> , 2018, 30, e1801256.	11.1	9
423	Organic Flexible Electronics. <i>Small Methods</i> , 2018, 2, 1800070.	4.6	177
424	360° omnidirectional, printable and transparent photodetectors for flexible optoelectronics. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	40
425	Recent Advances in Biointegrated Optoelectronic Devices. <i>Advanced Materials</i> , 2018, 30, e1800156.	11.1	76
426	Dark Ionic Liquid for Flexible Optoelectronics. <i>Langmuir</i> , 2019, 35, 1192-1198.	1.6	23
427	Double-Sided Anti-Reflection Nanostructures on Optical Convex Lenses for Imaging Applications. <i>Coatings</i> , 2019, 9, 404.	1.2	14
428	Optoelectronic resistive random access memory for neuromorphic vision sensors. <i>Nature Nanotechnology</i> , 2019, 14, 776-782.	15.6	783
429	Smart Compound Eyes Enable Tunable Imaging. <i>Advanced Functional Materials</i> , 2019, 29, 1903340.	7.8	66
430	Organic photodetectors with frustrated charge transport for small-pitch image sensors. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	3
431	Micro/Nanoscale 3D Assembly by Rolling, Folding, Curving, and Buckling Approaches. <i>Advanced Materials</i> , 2019, 31, e1901895.	11.1	84
433	A High Stretchable and Self-Healing Silicone Rubber with Double Reversible Bonds. <i>ChemistrySelect</i> , 2019, 4, 10719-10725.	0.7	23
434	Devices for promising applications. , 2019, , 247-314.		0
435	Design and applications of stretchable and self-healable conductors for soft electronics. <i>Nano Convergence</i> , 2019, 6, 25.	6.3	83

#	ARTICLE	IF	CITATIONS
436	Broadband, Tunable, Miniaturized Vibration Energy Harvester Using Nonlinear Elastomer Beams and Stretchable Interconnects. <i>Advanced Materials Technologies</i> , 2019, 4, 1900783.	3.0	7
437	Ultrathin Compound Eye Camera for Super-Resolution Far-Field Imaging Using Light Absorbing Multiple Layers. , 2019, , .		1
438	Femtosecond laser fabrication of 3D templates for mass production of artificial compound eyes. Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering, 2019, 2, 110-117.	1.7	20
440	Reversible MoS ₂ Origami with Spatially Resolved and Reconfigurable Photosensitivity. <i>Nano Letters</i> , 2019, 19, 7941-7949.	4.5	41
441	Instantaneous and Repeatable Self-Healing of Fully Metallic Electrodes at Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41497-41505.	4.0	31
442	Ultrathin Tunable Lens Based on Boundary Tension Effect. <i>Sensors</i> , 2019, 19, 4018.	2.1	4
443	Multifunctional Liquid Marble Compound Lenses. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34478-34486.	4.0	24
444	A bioinspired optoelectronically engineered artificial neurorobotics device with sensorimotor functionalities. <i>Nature Communications</i> , 2019, 10, 3873.	5.8	85
445	High-Accuracy Correction of a Microlens Array for Plenoptic Imaging Sensors. <i>Sensors</i> , 2019, 19, 3922.	2.1	5
446	Toward Imperfection-Insensitive Soft Network Materials for Applications in Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36100-36109.	4.0	17
447	A water-retaining, self-healing hydrogel as ionic skin with a highly pressure sensitive properties. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 104, 318-329.	2.7	12
448	3D Printer-Based Encapsulated Origami Electronics for Extreme System Stretchability and High Areal Coverage. <i>ACS Nano</i> , 2019, 13, 12500-12510.	7.3	27
449	Ultrafast Three-Dimensional Printing of Optically Smooth Microlens Arrays by Oscillation-Assisted Digital Light Processing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40662-40668.	4.0	62
450	Nanoimprint lithography for the manufacturing of flexible electronics. <i>Science China Technological Sciences</i> , 2019, 62, 175-198.	2.0	88
451	Thermally Superstable Cellulosic-Nanorod-Reinforced Transparent Substrates Featuring Microscale Surface Patterns. <i>ACS Nano</i> , 2019, 13, 2015-2023.	7.3	13
452	Ascendant bioinspired antireflective materials: Opportunities and challenges coexist. <i>Progress in Materials Science</i> , 2019, 103, 1-68.	16.0	89
453	Stimuli-responsive materials: a web themed collection. <i>Materials Chemistry Frontiers</i> , 2019, 3, 10-11.	3.2	21
454	Gate-Tunable and Programmable n-InGaAs/Black Phosphorus Heterojunction Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23382-23391.	4.0	10

#	ARTICLE	IF	CITATIONS
455	Smartphone based multispectral imager and its potential for point-of-care testing. <i>Analyst, The</i> , 2019, 144, 4380-4385.	1.7	11
456	Dose-Modulated Maskless Lithography for the Efficient Fabrication of Compound Eyes With Enlarged Field-of-View. <i>IEEE Photonics Journal</i> , 2019, 11, 1-10.	1.0	2
457	Buffering by buckling as a route for elastic deformation. <i>Nature Reviews Physics</i> , 2019, 1, 425-436.	11.9	40
458	Diamond machining of freeform-patterned surfaces on precision rollers. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 4423-4431.	1.5	3
459	Formation of Polystyrene Microlenses via Transient Droplets from the Ouzo Effect for Enhanced Optical Imaging. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14327-14337.	1.5	13
460	Kinematics analysis of scissor-type inspired interconnects. <i>Acta Mechanica</i> , 2019, 230, 2979-2988.	1.1	4
461	Optimization-Based Approach for the Inverse Design of Ribbon-Shaped Three-Dimensional Structures Assembled Through Compressive Buckling. <i>Physical Review Applied</i> , 2019, 11, .	1.5	20
462	Electrochemical nanoimprinting of silicon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10264-10269.	3.3	22
463	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. <i>ACS Nano</i> , 2019, 13, 6531-6539.	7.3	99
464	Fabrication of large-area cylindrical microlens array based on electric-field-driven jet printing. <i>Microsystem Technologies</i> , 2019, 25, 4495-4503.	1.2	17
465	Assembly and applications of 3D conformal electronics on curvilinear surfaces. <i>Materials Horizons</i> , 2019, 6, 642-683.	6.4	141
466	Design and Fabrication of an Artificial Compound Eye for Multi-Spectral Imaging. <i>Micromachines</i> , 2019, 10, 208.	1.4	10
467	Biomimetic photonics. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 030201.	1.0	0
468	Structural Anisotropy in Stretchable Silicon. <i>Advanced Electronic Materials</i> , 2019, 5, 1900003.	2.6	1
469	Interwoven Carbon Nanotube Wires for High-Performing, Mechanically Robust, Washable, and Wearable Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18285-18294.	4.0	33
470	Light-Directed Soft Mass Migration for Micro/Nanophotonics. <i>Advanced Optical Materials</i> , 2019, 7, 1900074.	3.6	31
471	Flow field perception based on the fish lateral line system. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 041001.	1.5	56
472	Transferable ultra-thin multi-level micro-optics patterned by tunable photoreduction and photoablation for hybrid optics. <i>Carbon</i> , 2019, 149, 572-581.	5.4	19

#	ARTICLE	IF	CITATIONS
473	Flexible photodetectors based on reticulated SWNT/perovskite quantum dot heterostructures with ultrahigh durability. <i>Nanoscale</i> , 2019, 11, 8020-8026.	2.8	30
474	Fabrication of infrared hexagonal microlens array by novel diamond turning method and precision glass molding. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 065004.	1.5	25
475	Super-resolution imaging and field of view extension using a single camera with Risley prisms. <i>Review of Scientific Instruments</i> , 2019, 90, 033701.	0.6	16
476	Highly conductive 3D metal-rubber composites for stretchable electronic applications. <i>APL Materials</i> , 2019, 7, .	2.2	22
477	PDMS Microlenses for Focusing Light in Narrow Band Imaging Diagnostics. <i>Sensors</i> , 2019, 19, 1057.	2.1	5
478	Rapid Engraving of Artificial Compound Eyes from Curved Sapphire Substrate. <i>Advanced Functional Materials</i> , 2019, 29, 1900037.	7.8	60
479	Fabrication and characterization of a polymeric curved compound eye. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 055008.	1.5	16
480	Stretchable sensors for environmental monitoring. <i>Applied Physics Reviews</i> , 2019, 6, .	5.5	83
481	Programmable three-dimensional advanced materials based on nanostructures as building blocks for flexible sensors. <i>Nano Today</i> , 2019, 26, 176-198.	6.2	60
482	Light Management with Patterned Micro- and Nanostructure Arrays for Photocatalysis, Photovoltaics, and Optoelectronic and Optical Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1807275.	7.8	115
483	Mechanical designs employing buckling physics for reversible and omnidirectional stretchability in microsupercapacitor arrays. <i>Materials Research Letters</i> , 2019, 7, 110-116.	4.1	5
484	Recent Advances in Halide Perovskite Single-Crystal Thin Films: Fabrication Methods and Optoelectronic Applications. <i>Solar Rrl</i> , 2019, 3, 1800294.	3.1	94
485	Silicon-Compatible Photodetectors: Trends to Monolithically Integrate Photosensors with Chip Technology. <i>Advanced Functional Materials</i> , 2019, 29, 1808182.	7.8	198
486	A facile post-peeling modification approach of elastic dielectrics for high-performance conformal organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3199-3205.	2.7	10
487	From 2D to 3D: Strain- and elongation-free topological transformations of optoelectronic circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3968-3973.	3.3	22
488	Bifurcation instability of substrate-supported metal films under biaxial in-plane tension. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 126, 52-75.	2.3	9
489	Towards Infrared Electronic Eyes: Flexible Colloidal Quantum Dot Photovoltaic Detectors Enhanced by Resonant Cavity. <i>Small</i> , 2019, 15, e1804920.	5.2	73
490	Flexible biconvex microlens array fabrication using combined inkjet-printing and imprint-lithography method. <i>Optics and Laser Technology</i> , 2019, 115, 118-124.	2.2	22

#	ARTICLE	IF	CITATIONS
491	The Facile Implementation of Soft/Tunable Multiband Optical Filters by Stacking Vertical Silicon Nanowire Arrays for Smart Sensing. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900072.	3.3	4
492	Skin-integrated wireless haptic interfaces for virtual and augmented reality. <i>Nature</i> , 2019, 575, 473-479.	13.7	610
493	Smart gas sensor arrays powered by artificial intelligence. <i>Journal of Semiconductors</i> , 2019, 40, 111601.	2.0	59
494	Recent advances in flexible photodetectors based on 1D nanostructures. <i>Journal of Semiconductors</i> , 2019, 40, 111602.	2.0	15
495	Collective Curved CMOS Sensor Process: Application for High-Resolution Optical Design and Assembly Challenges. , 2019, , .		1
496	Low-Power, Bio-Inspired Time-Stamp-Based 2-D Optic Flow Sensor for Artificial Compound Eyes of Micro Air Vehicles. <i>IEEE Sensors Journal</i> , 2019, 19, 12059-12068.	2.4	5
497	Biological Material Interfaces as Inspiration for Mechanical and Optical Material Designs. <i>Chemical Reviews</i> , 2019, 119, 12279-12336.	23.0	121
498	Deep Ego-Motion Classifiers for Compound Eye Cameras. <i>Sensors</i> , 2019, 19, 5275.	2.1	5
499	Three-dimensional curvy electronics created using conformal additive stamp printing. <i>Nature Electronics</i> , 2019, 2, 471-479.	13.1	131
500	Epitaxial growth and layer-transfer techniques for heterogeneous integration of materials for electronic and photonic devices. <i>Nature Electronics</i> , 2019, 2, 439-450.	13.1	155
501	A Slim Polymer Film with a Seamless Panoramic Field of View: The Radially Distributed Waveguide Encoded Lattice (RDWEL). <i>Advanced Optical Materials</i> , 2019, 7, 1801091.	3.6	7
502	Inverted pyramidally-textured PDMS antireflective foils for perovskite/silicon tandem solar cells with flat top cell. <i>Nano Energy</i> , 2019, 56, 234-240.	8.2	80
503	Review of state-of-the-art artificial compound eye imaging systems. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 031002.	1.5	75
504	An overview of biomimetic robots with animal behaviors. <i>Neurocomputing</i> , 2019, 332, 339-350.	3.5	72
505	Metamorphic Stretchable Touchpad. <i>Advanced Materials Technologies</i> , 2019, 4, 1800446.	3.0	4
506	Mechanics of magnet-controlled transfer printing. <i>Extreme Mechanics Letters</i> , 2019, 27, 76-82.	2.0	21
507	Bioinspired Electronics for Artificial Sensory Systems. <i>Advanced Materials</i> , 2019, 31, e1803637.	11.1	195
508	Biaxially Stretchable Ultrathin Si Enabled by Serpentine Structures on Prestrained Elastomers. <i>Advanced Materials Technologies</i> , 2019, 4, 1800489.	3.0	27

#	ARTICLE	IF	CITATIONS
509	Highly Stretchable and Compressible Self-Healing P(AA-co-AAm)/CoCl ₂ Hydrogel Electrolyte for Flexible Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 467-472.	1.7	35
510	A novel cellular substrate for flexible electronics with negative Poisson ratios under large stretching. <i>International Journal of Mechanical Sciences</i> , 2019, 151, 314-321.	3.6	21
511	Superhydrophobic surfaces-based redox-induced electricity from water droplets for self-powered wearable electronics. <i>Nano Energy</i> , 2019, 56, 547-554.	8.2	36
512	Recent Advances in Flexible Inorganic Light Emitting Diodes: From Materials Design to Integrated Optoelectronic Platforms. <i>Advanced Optical Materials</i> , 2019, 7, 1800936.	3.6	75
513	A self-healable and mechanical toughness flexible supercapacitor based on polyacrylic acid hydrogel electrolyte. <i>Chemical Engineering Journal</i> , 2019, 357, 428-434.	6.6	87
514	Fiber-Based Energy Conversion Devices for Human Body Energy Harvesting. <i>Advanced Materials</i> , 2020, 32, e1902034.	11.1	204
515	Review—Recent Advances in Block-Copolymer Nanostructured Subwavelength Antireflective Surfaces. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037502.	1.3	16
516	Removal of manganese from groundwater in the ripened sand filtration: Biological oxidation versus chemical auto-catalytic oxidation. <i>Chemical Engineering Journal</i> , 2020, 382, 123033.	6.6	62
517	Organic Photodetectors for Next-Generation Wearable Electronics. <i>Advanced Materials</i> , 2020, 32, e1902045.	11.1	401
518	Electro-mechanical Degradation Model of Flexible Metal Films Due to Fatigue Damage Accumulation. <i>Metals and Materials International</i> , 2020, 26, 501-509.	1.8	4
519	Mechanically-Guided Structural Designs in Stretchable Inorganic Electronics. <i>Advanced Materials</i> , 2020, 32, e1902254.	11.1	183
520	IR Artificial Compound Eye. <i>Advanced Optical Materials</i> , 2020, 8, 1901767.	3.6	30
521	Automatic Transformation of Membrane-Type Electronic Devices into Complex 3D Structures via Extrusion Shear Printing and Thermal Relaxation of Acrylonitrile-Butadiene-Styrene Frameworks. <i>Advanced Functional Materials</i> , 2020, 30, 1907384.	7.8	5
522	Recent Progress in Photonic Synapses for Neuromorphic Systems. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900136.	3.3	132
523	Fabrication and Characterization of Curved Compound Eyes Based on Multifocal Microlenses. <i>Micromachines</i> , 2020, 11, 854.	1.4	17
524	Fractal Web Design of a Hemispherical Photodetector Array with Organic Dye-Sensitized Graphene Hybrid Composites. <i>Advanced Materials</i> , 2020, 32, e2004456.	11.1	25
525	Spike Encoding with Optic Sensory Neurons Enable a Pulse Coupled Neural Network for Ultraviolet Image Segmentation. <i>Nano Letters</i> , 2020, 20, 8015-8023.	4.5	59
526	Minimal statistical-mechanical model for multihyperuniform patterns in avian retina. <i>Physical Review E</i> , 2020, 102, 012134.	0.8	6

#	ARTICLE	IF	CITATIONS
527	Progress in wearable electronics/photronicsâ€”Moving toward the era of artificial intelligence and internet of things. <i>Informa Mater</i> , 2020, 2, 1131-1162.	8.5	343
528	Monolayer hydrophilic MoS ₂ with strong charge trapping for atomically thin neuromorphic vision systems. <i>Materials Horizons</i> , 2020, 7, 3316-3324.	6.4	26
529	Bioinspired Photoresponsive Single Transistor Neuron for a Neuromorphic Visual System. <i>Nano Letters</i> , 2020, 20, 8781-8788.	4.5	38
530	High-Identical Numerical Aperture, Multifocal Microlens Array through Single-Step Multi-Sized Hole Patterning Photolithography. <i>Micromachines</i> , 2020, 11, 1068.	1.4	16
531	Indoor Localization Based on Infrared Angle of Arrival Sensor Network. <i>Sensors</i> , 2020, 20, 6278.	2.1	22
532	Atomic origami. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100882.	5.6	1
533	Breaking the absorption limit of Si toward SWIR wavelength range via strain engineering. <i>Science Advances</i> , 2020, 6, eabb0576.	4.7	36
534	Ink-Based Additive Nanomanufacturing of Functional Materials for Human-Integrated Smart Wearables. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000117.	3.3	17
535	Printable elastic silver nanowire-based conductor for washable electronic textiles. <i>Nano Research</i> , 2020, 13, 2879-2884.	5.8	27
536	Mini-Review on Bioinspired Superwetting Microlens Array and Compound Eye. <i>Frontiers in Chemistry</i> , 2020, 8, 575786.	1.8	10
537	Hierarchical Disordered Colloidal Thin Films with Duplex Optical Elements for Advanced Anti-Counterfeiting Coding. <i>Advanced Optical Materials</i> , 2020, 8, 2001378.	3.6	12
538	Electrically compensated, tattoo-like electrodes for epidermal electrophysiology at scale. <i>Science Advances</i> , 2020, 6, .	4.7	99
539	An aquatic-eye inspired miniature camera. <i>Nature Electronics</i> , 2020, 3, 510-511.	13.1	0
540	Realizing CsPbBr ₃ Light-Emitting Diode Arrays Based on PDMS Template Confined Solution Growth of Single-Crystalline Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8275-8282.	2.1	21
541	Heterogeneous integration of rigid, soft, and liquid materials for self-healable, recyclable, and reconfigurable wearable electronics. <i>Science Advances</i> , 2020, 6, .	4.7	118
542	Fabrication Techniques for Curved Electronics on Arbitrary Surfaces. <i>Advanced Materials Technologies</i> , 2020, 5, 2000093.	3.0	47
543	A biomimetic eye with a hemispherical perovskite nanowire array retina. <i>Nature</i> , 2020, 581, 278-282.	13.7	392
544	Reliable Patterning, Transfer Printing and Post-Assembly of Multiscale Adhesion-Free Metallic Structures for Nanogap Device Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2002549.	7.8	23

#	ARTICLE	IF	CITATIONS
545	An aquatic-vision-inspired camera based on a monocentric lens and a silicon nanorod photodiode array. <i>Nature Electronics</i> , 2020, 3, 546-553.	13.1	100
546	Wearable Triboelectric "Human" Machine Interface (THMI) Using Robust Nanophotonic Readout. <i>ACS Nano</i> , 2020, 14, 8915-8930.	7.3	121
547	Programmable and scalable transfer printing with high reliability and efficiency for flexible inorganic electronics. <i>Science Advances</i> , 2020, 6, eabb2393.	4.7	88
548	Wearable Triboelectric/Aluminum Nitride Nano Energy Nano System with Self-Sustainable Photonic Modulation and Continuous Force Sensing. <i>Advanced Science</i> , 2020, 7, 1903636.	5.6	66
549	Enhancement and directional control of light output of scintillators by using microlens arrays: A numerical simulation study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 974, 164206.	0.7	3
550	Morphology and properties of PEDOT:PSS/soft polymer blends through hydrogen bonding interaction and their pressure sensor application. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6013-6024.	2.7	44
551	Carbonized Dehydroascorbic Acid: Aim for Targeted Repair of Graphene Defects and Bridge Connection of Graphene Sheets with Small Size. <i>Nanomaterials</i> , 2020, 10, 531.	1.9	9
552	Design and Fabrication of Microscale, Thin-Film Silicon Solid Immersion Lenses for Mid-Infrared Application. <i>Micromachines</i> , 2020, 11, 250.	1.4	11
553	A microfluidically controlled concave "convex membrane lens using an addressing operation system. <i>Microsystems and Nanoengineering</i> , 2020, 6, 34.	3.4	5
554	A Silicon Photonics Computational Lensless Active-Flat-Optics Imaging System. <i>Scientific Reports</i> , 2020, 10, 1689.	1.6	10
555	Surface/Interface Engineering for Constructing Advanced Nanostructured Photodetectors with Improved Performance: A Brief Review. <i>Nanomaterials</i> , 2020, 10, 362.	1.9	35
556	Inverse Design Strategies for 3D Surfaces Formed by Mechanically Guided Assembly. <i>Advanced Materials</i> , 2020, 32, e1908424.	11.1	34
557	Biologically inspired ultrathin arrayed camera for high-contrast and high-resolution imaging. <i>Light: Science and Applications</i> , 2020, 9, 28.	7.7	53
558	Omnidirectional stretchability of freestanding interconnects for stretchable electronics. <i>Smart Materials and Structures</i> , 2020, 29, 045019.	1.8	0
559	Multi-axial electro-mechanical testing methodology for highly stretchable freestanding micron-sized structures. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 055002.	1.5	1
560	Biologically inspired artificial eyes and photonics. <i>Reports on Progress in Physics</i> , 2020, 83, 047101.	8.1	27
561	Engineering Smart Hybrid Tissues with Built-In Electronics. <i>IScience</i> , 2020, 23, 100833.	1.9	16
562	Facile fabrication of microlenses with controlled geometrical characteristics by inkjet printing on nanostructured surfaces prepared by combustion chemical vapour deposition. <i>Applied Surface Science</i> , 2020, 510, 145422.	3.1	10

#	ARTICLE	IF	CITATIONS
563	Design of large field of view curved optical system based on ZEMAX. IOP Conference Series: Materials Science and Engineering, 2020, 711, 012085.	0.3	0
564	Dynamic and Programmable Cellular-Scale Granules Enable Tissue-like Materials. Matter, 2020, 2, 948-964.	5.0	30
565	Naked-Eye 3D Display Based on Microlens Array Using Combined Micro-Nano Imprint and UV Offset Printing Methods. Molecules, 2020, 25, 2012.	1.7	5
566	Development of flexible and curved infrared detectors with HgTe colloidal quantum dots. Infrared Physics and Technology, 2020, 108, 103344.	1.3	17
567	Hyaline and stretchable haptic interfaces based on serpentine-shaped silver nanofiber networks. Nano Energy, 2020, 73, 104782.	8.2	37
568	Plasmonic ommatidia for lensless compound-eye vision. Nature Communications, 2020, 11, 1637.	5.8	51
569	Bioinspired Multiscale Wrinkling Patterns on Curved Substrates: An Overview. Nano-Micro Letters, 2020, 12, 101.	14.4	87
570	Energy harvesting from shadow-effect. Energy and Environmental Science, 2020, 13, 2404-2413.	15.6	29
571	Development of a piezoelectrically actuated dual-stage fast tool servo. Mechanical Systems and Signal Processing, 2020, 144, 106873.	4.4	47
572	Evolution of micro/nano-structural arrays on crystalline silicon carbide by femtosecond laser ablation. Materials Science in Semiconductor Processing, 2021, 121, 105299.	1.9	26
573	A multi-focusing curved artificial compound eye compatible with planar image sensors. Microsystem Technologies, 2021, 27, 2257-2262.	1.2	3
574	Microfabrication of bioinspired curved artificial compound eyes: a review. Microsystem Technologies, 2021, 27, 3241-3262.	1.2	11
575	A compact bionic compound eye camera for imaging in a large field of view. Optics and Laser Technology, 2021, 135, 106705.	2.2	9
576	Strain Engineering in 2D Material-Based Flexible Optoelectronics. Small Methods, 2021, 5, e2000919.	4.6	80
577	Highly Sensitive Artificial Visual Array Using Transistors Based on Porphyrins and Semiconductors. Small, 2021, 17, e2005491.	5.2	49
578	Mechanics of unusual soft network materials with rotatable structural nodes. Journal of the Mechanics and Physics of Solids, 2021, 146, 104210.	2.3	65
579	Trends in Performance Limits of the HOT Infrared Photodetectors. Applied Sciences (Switzerland), 2021, 11, 501.	1.3	48
580	High Contrast Ultrathin Light-Field Camera Using Inverted Microlens Arrays with Metal-Insulator-Metal Optical Absorber. Advanced Optical Materials, 2021, 9, 2001657.	3.6	33

#	ARTICLE	IF	CITATIONS
581	Progress in Quantum Dot Infrared Photodetectors. Lecture Notes in Nanoscale Science and Technology, 2021, , 1-74.	0.4	3
582	Recent progress of skin-integrated electronics for intelligent sensing. Light Advanced Manufacturing, 2021, 2, 39.	2.2	18
583	Well-rounded devices: the fabrication of electronics on curved surfaces – a review. Materials Horizons, 2021, 8, 1926-1958.	6.4	39
584	Unconventional Image–Sensing and Light–Emitting Devices for Extended Reality. Advanced Functional Materials, 2021, 31, 2009281.	7.8	23
585	Neuromorphic vision sensors: Principle, progress and perspectives. Journal of Semiconductors, 2021, 42, 013105.	2.0	70
586	Ultrathin arrayed camera for high-contrast near-infrared imaging. Optics Express, 2021, 29, 1333.	1.7	19
587	High-resolution artificial compound eye camera: a proof-of-concept study. , 2021, , .		1
588	Broadband Achromatic Transmission–Reflection–Integrated Metasurface Based on Frequency Multiplexing and Dispersion Engineering. Advanced Optical Materials, 2021, 9, 2001736.	3.6	7
589	Bioinspired design and assembly of a multilayer cage-shaped sensor capable of multistage load bearing and collapse prevention. Nanotechnology, 2021, 32, 155506.	1.3	14
590	Zinc oxide heterostructures: advances in devices from self-powered photodetectors to self-charging supercapacitors. Materials Advances, 2021, 2, 6768-6799.	2.6	19
591	A Review: All Solid-state Electroactive Polymer-based Tunable Lens. The Journal of Korea Robotics Society, 2021, 16, 41-48.	0.2	0
592	Recent Progress of Flexible Image Sensors for Biomedical Applications. Advanced Materials, 2021, 33, e2004416.	11.1	117
593	High-performance wearable thermoelectric generator with self-healing, recycling, and Lego-like reconfiguring capabilities. Science Advances, 2021, 7, .	4.7	189
594	Simultaneous improvement of field-of-view and resolution in an imaging optical system. Optics Express, 2021, 29, 9346.	1.7	12
595	Design and Integration of the Single-Lens Curved Multi-Focusing Compound Eye Camera. Micromachines, 2021, 12, 331.	1.4	7
596	Design and Fabrication of Double-Layer Curved Compound Eye via Two-Photon Polymerization. IEEE Photonics Technology Letters, 2021, 33, 231-234.	1.3	8
597	Nanoscale Materials and Deformable Device Designs for Bioinspired and Biointegrated Electronics. Accounts of Materials Research, 2021, 2, 266-281.	5.9	18
598	Measurement Technique for High Thermal Conductivity Nanomaterials. Ceramist, 2021, 24, 109-119.	0.0	2

#	ARTICLE	IF	CITATIONS
599	Effect of interfacial stiffness on the stretchability of metal/elastomer bilayers under in-plane biaxial tension. <i>Theoretical and Applied Mechanics Letters</i> , 2021, 11, 100247.	1.3	4
600	A flexible ultrasensitive optoelectronic sensor array for neuromorphic vision systems. <i>Nature Communications</i> , 2021, 12, 1798.	5.8	198
601	Fabrication of Addressable Perovskite Film Arrays for High-Performance Photodetection and Real-Time Image Sensing Application. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2930-2936.	2.1	23
602	Active friction control in lubrication condition using novel metal morphing surface. <i>Tribology International</i> , 2021, 156, 106827.	3.0	24
603	Si nanomebranes: Material properties and applications. <i>Nano Research</i> , 2021, 14, 3010-3032.	5.8	6
604	Materials and devices for flexible and stretchable photodetectors and light-emitting diodes. <i>Nano Research</i> , 2021, 14, 2919-2937.	5.8	34
605	A model and simulation strategy for fatigue damage evolution of copper films. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	0
606	Biomimetic models of the human eye, and their applications. <i>Nanotechnology</i> , 2021, 32, 302001.	1.3	9
607	Microlenses arrays: Fabrication, materials, and applications. <i>Microscopy Research and Technique</i> , 2021, 84, 2784-2806.	1.2	18
608	Intelligent Soft Surgical Robots for Next-Generation Minimally Invasive Surgery. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100011.	3.3	55
609	Ophthalmic Sensors and Drug Delivery. <i>ACS Sensors</i> , 2021, 6, 2046-2076.	4.0	32
610	In-sensor reservoir computing for language learning via two-dimensional memristors. <i>Science Advances</i> , 2021, 7, .	4.7	175
611	High numerical aperture imaging systems formed by integrating bionic artificial compound eyes on a CMOS sensor. <i>Optical Materials Express</i> , 2021, 11, 1824.	1.6	7
612	Infrared photoconductor based on surface-state absorption in silicon. <i>Optics Letters</i> , 2021, 46, 2577.	1.7	5
613	Stretchable and Soft Organic-Ionic Devices for Body-Integrated Electronic Systems. <i>Advanced Materials Technologies</i> , 2022, 7, 2001273.	3.0	16
614	Stick-and-play system based on interfacial adhesion control enhanced by micro/nanostructures. <i>Nano Research</i> , 2021, 14, 3143-3158.	5.8	10
615	Hexachromatic bioinspired camera for image-guided cancer surgery. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	27
616	Conception of a Smart Artificial Retina Based on a Dual-Mode Organic Sensing Inverter. <i>Advanced Science</i> , 2021, 8, e2100742.	5.6	27

#	ARTICLE	IF	CITATIONS
617	A homogeniser inspired by the crustacean's eye with uniform irradiance distribution and high optical efficiency characteristics for concentrated photovoltaics system. <i>Solar Energy</i> , 2021, 221, 87-98.	2.9	7
618	Artificial Visual Electronics for Closed-Loop Sensation/Action Systems. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100071.	3.3	3
619	Diving beetle-like miniaturized plungers with reversible, rapid biofluid capturing for machine learning-based care of skin disease. <i>Science Advances</i> , 2021, 7, .	4.7	36
620	Long-Lived Liquid Marbles for Green Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2011198.	7.8	26
621	Investigations on the thermal conduction behaviors of reduced graphene oxide/aramid nanofibers composites. <i>Diamond and Related Materials</i> , 2021, 116, 108422.	1.8	9
622	Bio-Inspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2022, 7, 2100144.	3.0	53
623	Mechanics of active elastomeric surfaces with tunable adhesion for non-contact pick-up and printing. <i>International Journal of Solids and Structures</i> , 2021, 219-220, 166-176.	1.3	4
624	A closed-loop intelligent adjustment of process parameters in precise and micro hot-embossing using an in-process optic detection. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 2341-2355.	4.4	2
625	Bioinspired Artificial Compound Eyes: Characteristic, Fabrication, and Application. <i>Advanced Materials Technologies</i> , 2021, 6, 2100091.	3.0	14
626	Flexible Hybrid Electronics for Monitoring Hypoxia. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 559-567.	2.7	2
627	A survey of the development of biomimetic intelligence and robotics. <i>Biomimetic Intelligence and Robotics</i> , 2021, 1, 100001.	1.1	29
628	Stretchable and Soft Electroadhesion Using Liquid-Metal Subsurface Microelectrodes. <i>Advanced Materials Technologies</i> , 2021, 6, 2100263.	3.0	16
629	Curvy, shape-adaptive imagers based on printed optoelectronic pixels with a kirigami design. <i>Nature Electronics</i> , 2021, 4, 513-521.	13.1	87
630	Biologically Inspired Ultrathin Contact Imager for High-Resolution Imaging of Epidermal Ridges on Human Finger. <i>Advanced Materials Technologies</i> , 2021, 6, 2100090.	3.0	8
631	Enhanced Light Trapping in Conformal CuO/Si Microholes Array Heterojunction for Self-Powered Broadband Photodetection. <i>IEEE Electron Device Letters</i> , 2021, 42, 883-886.	2.2	7
632	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , 2021, 7, .	4.7	22
633	Design, Fabrication, and Applications of Liquid Crystal Microlenses. <i>Advanced Optical Materials</i> , 2021, 9, 2100370.	3.6	10
634	Flexible and Stretchable Capacitive Sensors with Different Microstructures. <i>Advanced Materials</i> , 2021, 33, e2008267.	11.1	196

#	ARTICLE	IF	CITATIONS
635	MoS ₂ /Graphene Photodetector Array with Strain-Modulated Photoresponse up to the Near-Infrared Regime. ACS Nano, 2021, 15, 12836-12846.	7.3	56
636	Mechanical reliability of self-similar serpentine interconnect for fracture-free stretchable electronic devices. Journal of Applied Physics, 2021, 130, .	1.1	4
637	Development of a two-degree-of-freedom vibration generator for fabricating optical microstructure arrays. Optics Express, 2021, 29, 25903.	1.7	7
638	Stretchable, Rehealable, Recyclable, and Reconfigurable Integrated Strain Sensor for Joint Motion and Respiration Monitoring. Research, 2021, 2021, 9846036.	2.8	19
639	Light Management With Grating Structures in Optoelectronic Devices. Frontiers in Chemistry, 2021, 9, 737679.	1.8	3
640	Artificial Compound Eye Systems and Their Application: A Review. Micromachines, 2021, 12, 847.	1.4	19
641	A Marr's Three-Level Analytical Framework for Neuromorphic Electronic Systems. Advanced Intelligent Systems, 2021, 3, 2100054.	3.3	3
642	3D Printing of a PDMS Cylindrical Microlens Array with 100% Fill-Factor. ACS Applied Materials & Interfaces, 2021, 13, 36295-36306.	4.0	33
643	Highly stretchable and rehealable wearable strain sensor based on dynamic covalent thermoset and liquid metal. Smart Materials and Structures, 2021, 30, 105001.	1.8	9
644	Soft, Bistable Actuators for Reconfigurable 3D Electronics. ACS Applied Materials & Interfaces, 2021, 13, 41968-41977.	4.0	11
645	Asynchronous and Self-Adaptive Flight Assembly via Electrostatic Actuation of Flapping Wings. Advanced Intelligent Systems, 2021, 3, 2100048.	3.3	3
646	Multiphoton Laser Fabrication of Hybrid Photo-Activable Biomaterials. Sensors, 2021, 21, 5891.	2.1	10
647	Multiple concentric rainbows induced by microscale concave interfaces for reflective displays. Applied Materials Today, 2021, 24, 101146.	2.3	4
648	Aqueous Microlenses for Localized Collection and Enhanced Raman Spectroscopy of Gaseous Molecules. Advanced Optical Materials, 2021, 9, 2101209.	3.6	3
649	Silicon Heterojunction Microcells. ACS Applied Materials & Interfaces, 2021, 13, 45600-45608.	4.0	1
651	Development of triboelectric-enabled tunable Fabry-Pérot photonic-crystal-slab filter towards wearable mid-infrared computational spectrometer. Nano Energy, 2021, 89, 106446.	8.2	25
652	Enhanced geometric precision of non-contact, conformal 3D printing via error-transferred towards jetting-direction. Precision Engineering, 2021, 72, 1-12.	1.8	5
653	Super-resolution and super-robust single-pixel superposition compound eye. Optics and Lasers in Engineering, 2021, 146, 106699.	2.0	20

#	ARTICLE	IF	CITATIONS
654	Stretchable vertical organic transistors and their applications in neurologically systems. Nano Energy, 2021, 90, 106497.	8.2	26
655	High-resolution imaging and fast number estimation of suspended particles using dewetted polymer microlenses in a microfluidic channel. Micron, 2021, 151, 103148.	1.1	2
656	Digital optofluidic compound eyes with natural structures and zooming capability for large-area fluorescence sensing. Biosensors and Bioelectronics, 2022, 195, 113670.	5.3	14
657	A functional assembly framework based on implementable neurobionic material. Clinical and Translational Medicine, 2021, 11, e277.	1.7	2
658	Bionic Artificial Compound Eyes Imaging System Based on Precision Engraving. , 2021, , .		0
659	Drosophila Compound Eye Composed of Curved Micro-Lens Array Using Direct Laser Writing. , 2021, , .		0
660	Review on property regulation of semiconducting materials in flexible electronics. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 164203-164203.	0.2	0
661	Design study of a compact ultra-wide-angle high-spatial-resolution high-spectral-resolution snapshot imaging spectrometer. Optics Express, 2021, 29, 2893.	1.7	10
662	Skin-Like Electronics for Perception and Interaction: Materials, Structural Designs, and Applications. Advanced Intelligent Systems, 2021, 3, 2000108.	3.3	10
663	Biomimetic Materials and Structures for Sensor Applications. , 2017, , 3-25.		3
664	Miniaturization of Multi-Camera Systems. , 2017, , 89-115.		1
665	Numerical simulation research of wide-angle beam steering based on catenary shaped ultrathin metalens. Optics Communications, 2020, 474, 126085.	1.0	5
666	Large-Scale and Flexible Optical Synapses for Neuromorphic Computing and Integrated Visible Information Sensing Memory Processing. ACS Nano, 2021, 15, 1497-1508.	7.3	210
667	Strain-Limiting Substrates Based on Nonbuckling, Prestrain-Free Mechanics for Robust Stretchable Electronics. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	19
668	Mechanics of Buckled Kirigami Membranes for Stretchable Interconnects in Island-Bridge Structures. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	1.1	14
669	All-Solid Ionic Eye. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	1.1	13
670	Unibody microscope objective tipped with a microsphere: design, fabrication, and application in subwavelength imaging. Applied Optics, 2020, 59, 2641.	0.9	16
671	Methodology to design optical systems with curved sensors. Applied Optics, 2019, 58, 973.	0.9	10

#	ARTICLE	IF	CITATIONS
672	Directional Plasmonic Image Sensors for Lens-Free Compound-Eye Vision. , 2018, , .		1
673	Micro-lens aperture array for enhanced thin-film imaging using luminescent concentrators. Optics Express, 2018, 26, 29253.	1.7	8
674	Fabrication of large micro-structured high-numerical-aperture optofluidic compound eyes with tunable angle of view. Optics Express, 2018, 26, 33356.	1.7	7
675	Off-spindle-axis spiral grinding of aspheric microlens array mold inserts. Optics Express, 2019, 27, 10873.	1.7	20
676	Rapid optical $\frac{1}{4}$ -printing of polymer top-lensed microlens array. Optics Express, 2019, 27, 18376.	1.7	7
677	Underwater superoleophobic and anti-oil microlens array prepared by combing femtosecond laser wet etching and direct writing techniques. Optics Express, 2019, 27, 35903.	1.7	14
678	Cross-scale additive direct-writing fabrication of micro/nano lens arrays by electrohydrodynamic jet printing. Optics Express, 2020, 28, 6336.	1.7	21
679	Multispectral curved compound eye camera. Optics Express, 2020, 28, 9216.	1.7	19
680	Target orientation detection based on a neural network with a bionic bee-like compound eye. Optics Express, 2020, 28, 10794.	1.7	23
681	Multifocal microlens arrays using multilayer photolithography. Optics Express, 2020, 28, 9082.	1.7	63
682	Compound-eye metasurface optics enabling a high-sensitivity, ultra-thin polarization camera. Optics Express, 2020, 28, 9996.	1.7	26
683	Polyvinyl chloride gels microlens array with a well-controlled curvature obtained by solvent evaporation under DC electric fields. Optics Express, 2020, 28, 29285.	1.7	7
684	Bio-inspired multimodal 3D endoscope for image-guided and robotic surgery. Optics Express, 2021, 29, 145.	1.7	10
685	Biomimetic curved compound-eye camera with a high resolution for the detection of distant moving objects. Optics Letters, 2020, 45, 6863.	1.7	18
686	Detection of the three-dimensional trajectory of an object based on a curved bionic compound eye. Optics Letters, 2019, 44, 4143.	1.7	39
687	Geometry-controllable micro-optics with laser catapulting. Optical Materials Express, 2019, 9, 2892.	1.6	10
688	Flexible and stretchable inorganic optoelectronics. Optical Materials Express, 2019, 9, 4023.	1.6	35
690	2D Materials Based Optoelectronic Memory: Convergence of Electronic Memory and Optical Sensor. Research, 2019, 2019, 9490413.	2.8	85

#	ARTICLE	IF	CITATIONS
691	Fabrication of Disordered Subwavelength Structures on Curved Surfaces by Using a Thermal Dewetting Process. Applied Science and Convergence Technology, 2015, 24, 172-177.	0.3	1
692	Developing the Nondevelopable: Creating Curved Surface Electronics from Nonstretchable Devices. Advanced Materials, 2022, 34, e2106683.	11.1	22
693	Multidimensional Tactile Sensor with a Thin Compound Eye-Inspired Imaging System. Soft Robotics, 2022, 9, 861-870.	4.6	6
694	A Self-Healing and Ionic Liquid Affiliative Polyurethane toward a Piezo 2 Protein Inspired Ionic Skin. Advanced Functional Materials, 2022, 32, 2106341.	7.8	48
695	Bio-inspired spectropolarimetric sensor based on tandem organic photodetectors and multi-twist liquid crystals. Optics Express, 2021, 29, 43953.	1.7	2
696	Recent Advances on apposition compound eye cameras. , 2013, , .		0
697	Recent Progress in Flexible/Wearable Electronics. Journal of Welding and Joining, 2014, 32, 34-42.	0.6	3
698	Insect-Inspired Visual Systems and Visually Guided Behavior. , 2015, , 1-9.		0
699	Real-Time Omnidirectional Imaging System with Interconnected Network of Cameras. IFIP Advances in Information and Communication Technology, 2015, , 170-197.	0.5	0
700	Trends in Biomimetic Vision Sensor Technology. Journal of Institute of Control, Robotics and Systems, 2015, 21, 1178-1184.	0.1	1
701	FAST Corner Detector in Discrete Spherical Image. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 838-843.	0.1	0
702	Insect-Inspired Visual Systems and Visually Guided Behavior. , 2016, , 1646-1653.		0
703	Use of Bifocal Objective Lens and Scanning Motion in Robotic Imaging Systems for Simultaneous Peripheral and High Resolution Observation of Objects. Lecture Notes in Computer Science, 2016, , 319-328.	1.0	0
704	Fabrication of the curved artificial compound eyes with a homebuilt mold. Proceedings of SPIE, 2016, , .	0.8	0
705	Soft Robotic Micro-Tentacle: A Case Study. SpringerBriefs in Applied Sciences and Technology, 2017, , 39-58.	0.2	0
706	Enabling Technologies. SpringerBriefs in Applied Sciences and Technology, 2017, , 11-38.	0.2	0
708	Current Progress. SpringerBriefs in Applied Sciences and Technology, 2017, , 59-78.	0.2	0
709	Parametric Studies on Wide Field of View Imaging Systems with Curved Image Sensors. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
710	Research of a Lensless Artificial Compound Eye. Lecture Notes in Computer Science, 2017, , 406-417.	1.0	1
711	Wave study of compound eyes for efficient infrared detection. , 2017, , .		0
712	Multifocal microlens for bionic compound eye. , 2017, , .		0
713	Miniaturising artificial compound eyes based on advanced micromanofabrication techniques. Light Advanced Manufacturing, 2021, 2, 84.	2.2	17
714	Nanoparticles-Based Flexible Wearable Sensors for Health Monitoring Applications. , 2019, , 245-284.		1
715	Colloidal quantum dots based infrared electronic eyes for multispectral imaging. , 2019, , .		3
716	Towards a one millimeter thin foil camera. International Journal of Wavelets, Multiresolution and Information Processing, 0, , 2040002.	0.9	0
717	Motion detection based on 3D-printed compound eyes. OSA Continuum, 2020, 3, 2553.	1.8	4
718	Freeform imaging system with resolution that varies with the field angle in two dimensions. Optics Express, 2021, 29, 37354.	1.7	8
719	Continuous zoom compound eye imaging system based on liquid lenses. Optics Express, 2021, 29, 37565.	1.7	4
720	Fabrication of a light screen-aperture integrated flexible thin film micro-lens array for a biomimetic superposition compound eye. Optics Express, 2021, 29, 39214.	1.7	1
721	Plasmonic Computational Compound-Eye Camera. Optics and Photonics News, 2020, 31, 41.	0.4	0
722	Soft and Stretchable Electronics Design. , 2023, , 258-286.		2
723	Ultra-slim, wide field-of-view single lens cameras with designs inspired by an aquatic animal. , 2020, , .		0
724	Lensless Compound-Eye Vision with Plasmonic Ommatidia. , 2020, , .		0
726	Biomimetic apposition compound eye fabricated using microfluidic-assisted 3D printing. Nature Communications, 2021, 12, 6458.	5.8	51
727	Variable focus convex microlens array on K9 glass substrate based on femtosecond laser processing and hot embossing lithography. Optics Letters, 2022, 47, 22.	1.7	5
728	Vari-Focal Light Field Camera for Extended Depth of Field. Micromachines, 2021, 12, 1453.	1.4	9

#	ARTICLE	IF	CITATIONS
729	Stretchable MoS ₂ Artificial Photoreceptors for E-Skin. <i>Advanced Functional Materials</i> , 2022, 32, 2107524.	7.8	24
731	Challenges and emerging opportunities in transistor-based ultrathin electronics: design and fabrication for healthcare applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2450-2474.	2.7	6
732	Recent advances in curved image sensor arrays for bioinspired vision system. <i>Nano Today</i> , 2022, 42, 101366.	6.2	16
733	Transverse additive manufacturing and optical evaluation of miniature thin lenses in ultracompact micro multi-spherical compound eye. <i>Optics and Lasers in Engineering</i> , 2022, 151, 106913.	2.0	6
734	Natural polyelectrolyte-based ultraflexible photoelectric synaptic transistors for hemispherical high-sensitive neuromorphic imaging system. <i>Nano Energy</i> , 2022, 95, 107001.	8.2	24
735	Gravity-Controlled and Boundary-Constrained High-Throughput Fabrication of Polymeric Miniature Lens Arrays. <i>Macromolecular Materials and Engineering</i> , 0, , 2100840.	1.7	0
736	Stretchable Neuromorphic Transistor That Combines Multisensing and Information Processing for Epidermal Gesture Recognition. <i>ACS Nano</i> , 2022, 16, 2282-2291.	7.3	63
737	Controlled Bi-Axial Buckling and Postbuckling of Thin Films Suspended on a Stretchable Substrate With Square Prism Relief Structures. <i>International Journal of Applied Mechanics</i> , 0, , .	1.3	4
738	Natural Polyelectrolyte-Based Ultraflexible Photoelectric Synaptic Transistors for Hemispherical High-Sensitive Neuromorphic Imaging System. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
739	Sustaining ecosystem services. , 2022, , 753-797.		0
740	Bio-Inspired Electronic Eyes and Synaptic Photodetectors for Mobile Artificial Vision. , 2022, 1, 76-87.		8
741	A stretchable ultraviolet-to-NIR broad spectral photodetector using organic-inorganic vertical multiheterojunctions. <i>Nanoscale</i> , 2022, 14, 5102-5111.	2.8	5
742	Target-oriented Passive Localization Techniques Inspired by Terrestrial Arthropods: A Review. <i>Journal of Bionic Engineering</i> , 2022, 19, 571-589.	2.7	2
743	Fabrication of microlens array on chalcogenide glass by wet etching-assisted femtosecond laser direct writing. <i>Ceramics International</i> , 2022, 48, 18983-18988.	2.3	21
744	Manipulation of mechanically nanopatterned line defect assemblies in plane-parallel nematic liquid crystals. <i>Liquid Crystals Reviews</i> , 2022, 10, 98-122.	1.1	4
745	Flexible electronics and optoelectronics of 2D van der Waals materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 671-690.	2.4	10
746	Plasmonic Optoelectronic Memristor Enabling Fully Light-Modulated Synaptic Plasticity for Neuromorphic Vision. <i>Advanced Science</i> , 2022, 9, e2104632.	5.6	81
747	A Novel Evaluation Strategy to Artificial Neural Network Model Based on Bionics. <i>Journal of Bionic Engineering</i> , 2022, 19, 224-239.	2.7	12

#	ARTICLE	IF	CITATIONS
748	Micro-LED Light-Emitting Diodes Based on InGaN Materials with Quantum Dots. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	15
749	Hierarchical Artificial Compound Eyes with Wide Field-of-View and Antireflection Properties Prepared by Nanotip-Focused Electrohydrodynamic Jet Printing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60625-60635.	4.0	13
750	Next-generation machine vision systems incorporating two-dimensional materials: Progress and perspectives. <i>Informa-Materials</i> , 2022, 4, .	8.5	58
751	All-Polymer Based Stretchable Rubbery Electronics and Sensors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
752	Neuromorphic sensory computing. <i>Science China Information Sciences</i> , 2022, 65, 1.	2.7	33
753	Graphene-Based Composite Membrane Prepared from Solid Carbon Source Catalyzed by Ni Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 3392.	1.9	3
754	One-step 3D microstructuring of PMMA using MeV light ions. <i>EPJ Web of Conferences</i> , 2022, 261, 02001.	0.1	1
755	Recent progress in three-dimensional flexible physical sensors. <i>International Journal of Smart and Nano Materials</i> , 2022, 13, 17-41.	2.0	17
756	Snake-Hot-Eye-Assisted Multi-Process-Fusion Target Tracking Based on a Roll-Pitch Semi-strapdown Infrared Imaging Seeker. <i>Journal of Bionic Engineering</i> , 2022, 19, 1124-1139.	2.7	5
757	Near 90% Transparent ITO-Based Flexible Electrode with Double-Sided Antireflection Layers for Highly Efficient Flexible Optoelectronic Devices. <i>Small</i> , 2022, 18, e2201716.	5.2	4
758	Fabrication of 3D metallic glass architectures by a mold-strain-set method. <i>Materials and Design</i> , 2022, 218, 110668.	3.3	4
759	A new dimension for magnetosensitive e-skins: active matrix integrated micro-origami sensor arrays. <i>Nature Communications</i> , 2022, 13, 2121.	5.8	34
760	A photon-controlled diode with a new signal-processing behavior. <i>National Science Review</i> , 2022, 9, .	4.6	2
761	A biomimetic compound eye lens for photocurrent enhancement at low temperatures. <i>Bioinspiration and Biomimetics</i> , 2022, , .	1.5	0
762	Varifocal liquid microlens in scaffold microstructures under electrothermal actuation. <i>Sensors and Actuators A: Physical</i> , 2022, 341, 113584.	2.0	0
763	Electrowetting-on-dielectric powered by triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 98, 107310.	8.2	8
764	Bio-inspired spherical compound eye camera for simultaneous wide-band and large field of view imaging. <i>Optics Express</i> , 2022, 30, 20952.	1.7	12
765	A bio-inspired polarization navigation sensor based on artificial compound eyes. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 046017.	1.5	9

#	ARTICLE	IF	CITATIONS
766	Tough, transparent, biocompatible and stretchable thermoplastic copolymer with high stability and processability for soft electronics. <i>Materials Today</i> , 2022, 57, 43-56.	8.3	16
767	In-sensor Computing Devices for Bio-inspired Vision Sensors. , 2022, , .		0
769	A Review of Artificial Spiking Neuron Devices for Neural Processing and Sensing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	47
770	Emerging Intelligent Manufacturing of Metal Halide Perovskites. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	3
771	Preparation of a multifunctional organogel and its electrochemical properties. <i>Soft Matter</i> , 2022, 18, 5166-5170.	1.2	7
772	Multi-aperture optical imaging systems and their mathematical light field acquisition models. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2022, 23, 823-844.	1.5	0
773	Azobenzene-Based Solar Thermal Fuels: A Review. <i>Nano-Micro Letters</i> , 2022, 14, .	14.4	28
774	P: A Monolithically Integrated Artificial Compound Eye for Proximity Pattern Recognition. <i>Digest of Technical Papers SID International Symposium</i> , 2022, 53, 1122-1125.	0.1	0
775	An amphibious artificial vision system with a panoramic visual field. <i>Nature Electronics</i> , 2022, 5, 452-459.	13.1	40
776	Wide Waveband Light Detection and Storage Device for Visual Memory. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , 2100881.	0.8	3
777	Stretchable colour-sensitive quantum dot nanocomposites for shape-tunable multiplexed phototransistor arrays. <i>Nature Nanotechnology</i> , 2022, 17, 849-856.	15.6	42
778	Ultraprecision tool-servo cutting of pure nickel for fabricating micro/nanostructure arrays. <i>Materials and Design</i> , 2022, 221, 110913.	3.3	8
779	A wide-field and high-resolution lensless compound eye microsystem for real-time target motion perception. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	11
780	A photosensor employing data-driven binning for ultrafast image recognition. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
781	Quantum dot nanocomposites for flexible retina. <i>Nature Nanotechnology</i> , 2022, 17, 819-820.	15.6	0
782	Fabrication of a bionic compound eye on a curved surface by using a self-assembly technique. <i>Optics Express</i> , 2022, 30, 30750.	1.7	4
783	Biologically inspired intraoral camera for multifunctional dental imaging. <i>Journal of Optical Microsystems</i> , 2022, 2, .	0.9	0
784	Monolithic Integration of Perovskite Photoabsorbers with IGZO ThinÜFilm Transistor Backplane for PhototransistorÜBased Image Sensor. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	10

#	ARTICLE	IF	CITATIONS
785	Assembly of complex 3D structures and electronics on curved surfaces. <i>Science Advances</i> , 2022, 8, .	4.7	37
786	Bioinspired moth-eye multi-mechanism composite ultra-wideband microwave absorber based on the graphite powder. <i>Carbon</i> , 2023, 201, 542-548.	5.4	36
787	On-demand liquid microlens arrays by non-contact relocation of inhomogeneous fluids in acoustic fields. <i>Lab on A Chip</i> , 0, , .	3.1	3
788	Recent advances in soft electronic materials for intrinsically stretchable optoelectronic systems. <i>Opto-Electronic Advances</i> , 2022, 5, 210131-210131.	6.4	14
789	Bioinspired Moth-Eye Multi-Mechanism Composite Ultra-Wideband Microwave Absorber Based on the Graphite Powder. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
790	A Review Study on Monitoring of Physiological Parameters for Ocular Diagnostics and Administering Drugs for Ocular Diseases through a Contact Lens (A Wearable Device). <i>International Journal of Scientific Research in Science and Technology</i> , 2022, , 408-417.	0.1	0
791	Compact zooming optical systems for panoramic and telescopic applications based on curved image sensor. <i>Journal of Optical Microsystems</i> , 2022, 2, .	0.9	2
792	Miniature optoelectronic compound eye camera. <i>Nature Communications</i> , 2022, 13, .	5.8	39
793	Long-working-distance 3D measurement with a bionic curved compound-eye camera. <i>Optics Express</i> , 2022, 30, 36985.	1.7	6
794	Perovskite Wide-Field-Of-View Camera. <i>Advanced Materials</i> , 2022, 34, .	11.1	28
795	Artificial Hyper Compound Eyes Enable Variable-Focus Imaging on both Curved and Flat Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 46112-46121.	4.0	5
796	Chalcogenide Glass IR Artificial Compound Eyes Based on Femtosecond Laser Microfabrication. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	9
797	Strain-tunable optical microlens arrays with deformable wrinkles for spatially coordinated image projection on a security substrate. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	6
798	Enhancing the design by optimizing MTF performance of MLA with overlapping aperture. <i>Journal of Physics: Conference Series</i> , 2022, 2335, 012032.	0.3	0
799	Next generation lanthanide doped nanoscintillators and photon converters. <i>ELight</i> , 2022, 2, .	11.9	44
800	Scaling infrared detectors's status and outlook. <i>Reports on Progress in Physics</i> , 2022, 85, 126501.	8.1	16
801	Transfer printing technologies for soft electronics. <i>Nanoscale</i> , 2022, 14, 16749-16760.	2.8	9
802	Collision Avoidance Systems and Emerging Bio-inspired Sensors for Autonomous Vehicles. , 2022, , 121-141.		0

#	ARTICLE	IF	CITATIONS
803	Tough and body-temperature self-healing polysiloxane elastomers through building a double physical crosslinking network <i>via</i> competing non-covalent interactions. Journal of Materials Chemistry A, 2022, 10, 23375-23383.	5.2	14
804	Short-Term Plasticity in 2D Materials for Neuromorphic Computing. , 2022, , 33-53.		1
805	CompoundRay, an open-source tool for high-speed and high-fidelity rendering of compound eyes. ELife, 0, 11, .	2.8	3
806	Advances in Flexible Organic Photodetectors: Materials and Applications. Nanomaterials, 2022, 12, 3775.	1.9	9
807	Fabrication of Cylindrical Microlens by Femtosecond Laser-Assisted Hydrofluoric Acid Wet Etching of Fused Silica. Advanced Photonics Research, 2023, 4, .	1.7	2
808	Spray-coated perovskite hemispherical photodetector featuring narrow-band and wide-angle imaging. Nature Communications, 2022, 13, .	5.8	31
809	Classification of Facet Systems of Technical Vision. Optoelectronic Information-Power Technologies, 2022, 42, 21-32.	0.0	0
810	Integration of synaptic phototransistors and quantum dot light-emitting diodes for visualization and recognition of UV patterns. Science Advances, 2022, 8, .	4.7	26
811	Multi-scale analyses on mechano-electric degradation of film interconnects in flexible electronics. Fatigue and Fracture of Engineering Materials and Structures, 2023, 46, 259-270.	1.7	0
812	A Hemispherical Image Sensor Array Fabricated with Organic Photomemory Transistors. Advanced Materials, 2023, 35, .	11.1	12
813	Development of neural-network-based stereo bionic compound eyes with fiber bundles. Concurrency Computation Practice and Experience, 0, , .	1.4	1
814	An All-in-One Bioinspired Neural Network. ACS Nano, 2022, 16, 20100-20115.	7.3	9
815	Theoretical Design of a Bionic Spatial 3D-Arrayed Multifocal Metalens. Biomimetics, 2022, 7, 200.	1.5	1
816	Heterogeneous compound eye camera for dual-scale imaging in a large field of view. Optics Express, 2022, 30, 45143.	1.7	2
817	Mosaic-free compound eye camera based on multidirectional photodetectors and single-pixel imaging. Optics Letters, 2022, 47, 6349.	1.7	3
818	Diffractionless lensless imaging with optimized Voronoi-Fresnel phase. Optics Express, 0, , .	1.7	4
819	Advanced Stretchable Photodetectors: Strategies, Materials and Devices. Chemistry - A European Journal, 2023, 29, .	1.7	4
820	Three-Dimensional Transformation of Membrane-Type Electronics Using Transient Microfluidic Channels for the Sequential Selective Plasticization of Supportive Plastic Substrates. Advanced Materials Technologies, 0, , 2201135.	3.0	0

#	ARTICLE	IF	CITATIONS
821	Stretchable photodetectors based on 2D materials: materials synthesis, fabrications and applications. FlatChem, 2022, 36, 100452.	2.8	10
822	Lattice-plasmon effect on entanglement behavior in a plasmonic system. Journal of Nanophotonics, 2022, 16, .	0.4	0
823	Multi-functional imaging inspired by insect stereopsis. , 2022, 1, .		3
824	Wearable Triboelectric Visual Sensors for Tactile Perception. Advanced Materials, 2023, 35, .	11.1	77
825	Bioinspired Camera System with Amphibious and Panoramic Vision. , 2022, , .		0
826	Recent Progresses in Optoelectronic Artificial Synapse Devices. Wujia Cailiao Xuebao/Journal of Inorganic Materials, 2022, , 699.	0.6	0
827	Nanomaterial-Based Synaptic Optoelectronic Devices for In-Sensor Preprocessing of Image Data. ACS Omega, 2023, 8, 5209-5224.	1.6	8
828	Local Selective Vision Transformer for Depth Estimation Using a Compound Eye Camera. Pattern Recognition Letters, 2023, 167, 82-89.	2.6	3
829	Image reconstruction for the artificial compound eye based on deep learning. , 2023, , .		0
830	An Image Detectionâ€œMemoryâ€œRecognition Artificial Visual Unit Based on Dualâ€œGate Phototransistors. Advanced Intelligent Systems, 2023, 5, .	3.3	1
831	Experimental and Firstâ€œPrinciples Study of Visible Light Responsive Memristor Based on CuAlAgCr/TiO ₂ /W Structure for Artificial Synapses with Visual Perception. Advanced Electronic Materials, 2023, 9, .	2.6	4
832	Methods for reducing the tillage force of subsoiling tools: A review. Soil and Tillage Research, 2023, 229, 105676.	2.6	5
833	Fabrication of curved aspheric compound eye microlens array with high surface quality by precision glass molding. Precision Engineering, 2023, 82, 129-139.	1.8	5
834	Conformal Design on Rigid Curved Substrate. , 2022, , 137-163.		0
835	Structural Engineering of Flexible Electronics. , 2022, , 1-26.		0
836	Bioelectronic devices for light-based diagnostics and therapies. Biophysics Reviews, 2023, 4, .	1.0	2
837	Super-Resolution and Wide-Field-of-View Imaging Based on Large-Angle Deflection with Risley Prisms. Sensors, 2023, 23, 1793.	2.1	0
838	Cuttlefish eyeâ€œinspired artificial vision for high-quality imaging under uneven illumination conditions. Science Robotics, 2023, 8, .	9.9	12

#	ARTICLE	IF	CITATIONS
839	Triboelectric Nanogenerator as Wearable Sensing Devices. , 2023, , 1-50.		0
840	Wide field of view and full Stokes polarization imaging using metasurfaces inspired by the stomatopod eye. Nanophotonics, 2023, 12, 1137-1146.	2.9	2
841	Replication of Microlens Array via Partial-filling Compression Molding. Journal of the Korean Society of Manufacturing Technology Engineers, 2023, 32, 17-23.	0.1	0
842	Emerging photoelectric devices for neuromorphic vision applications: principles, developments, and outlooks. Science and Technology of Advanced Materials, 2023, 24, .	2.8	9
843	Thermal shape morphing of membrane-type electronics based on plastic-elastomer frameworks for 3D electronics with various Gaussian curvatures. Materials and Design, 2023, 227, 111811.	3.3	2
844	æ²éçâçœ¼çŽ»ç'f ééé•œæ"jãž'è;†ç"ã»¿çœÿç"ç©¶. Laser and Optoelectronics Progress, 2023, 60, 0522002.	0.2	1
845	A neuromorphic bionic eye with filter-free color vision using hemispherical perovskite nanowire array retina. Nature Communications, 2023, 14, .	5.8	26
846	Optoelectronic graded neurons for bioinspired in-sensor motion perception. Nature Nanotechnology, 2023, 18, 882-888.	15.6	50
847	Retinaâ€Inspired Artificial Synapses with Ultraviolet to Nearâ€Infrared Broadband Responses for Energyâ€Efficient Neuromorphic Visual Systems. Advanced Functional Materials, 2023, 33, .	7.8	21
850	A Three-Dimensional Neuromorphic Photosensor Array for Nonvolatile In-Sensor Computing. Nano Letters, 2023, 23, 4524-4532.	4.5	6
863	Fabrication of Flexible Artificial Compound Eyes for Real-time Focal Length Tuning. , 2022, , .		0
864	Evolution of natural eyes and biomimetic imaging devices for effective image acquisition. Journal of Materials Chemistry C, 2023, 11, 12083-12104.	2.7	4
866	Artificial vision systems inspired by the eyes of aquatic animals. , 2023, , .		0
874	Triboelectric Nanogenerator as Wearable Sensing Devices. , 2023, , 1487-1536.		0
884	In-sensor Computing Based on Two-terminal Optoelectronic Memristors. , 2023, , 339-372.		0
885	Sensingâ€Storageâ€Computing Integrated Devices Based on Carbon Nanomaterials. , 2023, , 555-568.		0
893	Recent Advances in Patterning Strategies for Full-Color Perovskite Light-Emitting Diodes. Nano-Micro Letters, 2024, 16, .	14.4	1
905	Additive Manufacturing in Electronics and Functional Devices. , 2023, , 515-525.		0

#	ARTICLE	IF	CITATIONS
914	Thermal release tape-enabled transfer printing techniques. , 2024, , 63-78.		0
921	A Super Stretchable, Strain-Insensitive Vertical Serpentine Conductor Based On MEMS Technology. , 2024, , .		0
922	Fabrication of Flexible Artificial Compound Eyes for Real-time Focal Length Tuning. , 2022, , .		0