Jianquan Yao

List of Publications by Citations

194	2,366	23	39
papers	citations	h-index	g-index
237	3,235	3.5	5.45
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
194	The terahertz electromagnetically induced transparency-like metamaterials for sensitive biosensors in the detection of cancer cells. *Biosensors and Bioelectronics*, **2019**, 126, 485-492	11.8	119
193	Graphene-based tunable terahertz plasmon-induced transparency metamaterial. *Nanoscale*, **2016**, 8, 15273-80	7.7	116
192	Analysis of Graphene-Based Photonic Crystal Fiber Sensor Using Birefringence and Surface Plasmon Resonance. *Plasmonics*, **2017**, 12, 489-496	2.4	96
191	Surface plasmon resonance temperature sensor based on photonic crystal fibers randomly filled with silver nanowires. *Sensors*, **2014**, 14, 16035-45	3.8	79
190	Broadband Phototransistor Based on CHNHPbI Perovskite and PbSe Quantum Dot Heterojunction. *Journal of Physical Chemistry Letters*, **2017**, 8, 445-451	6.4	74
189	Fabrication of Covalently Functionalized Graphene Oxide Incorporated Solid-State Hybrid Silica Gel Glasses and Their Improved Nonlinear Optical Response. *Journal of Physical Chemistry C*, **2013**, 117, 23108-23116	3.8	47
188	Broadband and wide-angle RCS reduction using a 2-bit coding ultrathin metasurface at terahertz frequencies. *Scientific Reports*, **2016**, 6, 39252	4.9	47
187	Surface plasmon resonance sensor based on hollow-core PCFs filled with silver nanowires. *Electronics Letters*, **2015**, 51, 1675-1677	1.1	45
186	An Exposed-Core Grapefruit Fibers Based Surface Plasmon Resonance Sensor. *Sensors*, **2015**, 15, 17106-14	3.8	45
185	Temperature Sensor Based on Fiber Ring Laser With Sagnac Loop. *IEEE Photonics Technology Letters*, **2016**, 28, 794-797	2.2	44
184	Magneto-Optical Modulation of Photonic Spin Hall Effect of Graphene in Terahertz Region. *Advanced Optical Materials*, **2018**, 6, 1701212	8.1	42
183	Plasmon-Induced Transparency in Metamaterial Based on Graphene and Split-Ring Resonators. *IEEE Photonics Technology Letters*, **2015**, 27, 1321-1324	2.2	38
182	Ultrabroadband, Ultraviolet to Terahertz, and High Sensitivity CHNHPbI Perovskite Photodetectors. *Nano Letters*, **2020**, 20, 5646-5654	11.5	38
181	Ferrofluid-Infiltrated Microstructured Optical Fiber Long-Period Grating. *IEEE Photonics Technology Letters*, **2013**, 25, 306-309	2.2	38
180	Multiheterojunction Phototransistors Based on Graphene–PbSe Quantum Dot Hybrids. *Journal of Physical Chemistry C*, **2015**, 119, 21739-21743	3.8	36
179	Light assisted multilevel resistive switching memory devices based on all-inorganic perovskite quantum dots. *Applied Physics Letters*, **2019**, 114, 181103	3.4	34
178	High Performances for Solution-Pocessed 0D–0D Heterojunction Phototransistors. *Advanced Optical Materials*, **2017**, 5, 1700565	8.1	33

177	Efficient Continuous-Wave 1053-nm Nd:GYSGG Laser With Passively Q-Switched Dual-Wavelength Operation for Terahertz Generation. *IEEE Journal of Quantum Electronics*, **2013**, 49, 375-379	2	33
176	A New Ba0.6 Sr0.4 TiO3 -Silicon Hybrid Metamaterial Device in Terahertz Regime. *Small*, **2016**, 12, 2610-5	11	31
175	All-Perovskite Photodetector with Fast Response. *Nanoscale Research Letters*, **2019**, 14, 291	5	31
174	Fiber Ring Laser Temperature Sensor Based on Liquid-Filled Photonic Crystal Fiber. *IEEE Sensors Journal*, **2017**, 17, 6948-6952	4	28
173	A Hollow-Core Photonic Crystal Fiber-Based SPR Sensor With Large Detection Range. *IEEE Photonics Journal*, **2017**, 9, 1-7	1.8	26
172	Humidity Sensor Based on Fabry-Perot Interferometer and Intracavity Sensing of Fiber Laser. *Journal of Lightwave Technology*, **2017**, 35, 4789-4795	4	25
171	Optically pumped terahertz sources. *Science China Technological Sciences*, **2017**, 60, 1801-1818	3.5	23
170	Study of brain glioma in a mouse model using continuous-wave terahertz reflection imaging. *Biomedical Optics Express*, **2019**, 10, 3953-3962	3.5	23
169	A terahertz metamaterial biosensor for sensitive detection of microRNAs based on gold-nanoparticles and strand displacement amplification. *Biosensors and Bioelectronics*, **2021**, 175, 112874	11.8	23
168	Surface Plasmon Resonance Sensor Based On Exposed-Core Microstructured Optical Fiber Placed With A Silver Wire. *IEEE Photonics Journal*, **2016**, 8, 1-8	1.8	22
167	SPR Sensor Based on Exposed-Core Grapefruit Fiber With Bimetallic Structure. *IEEE Photonics Technology Letters*, **2016**, 28, 649-652	2.2	22
166	Dual-Direction Magnetic Field Sensor Based on Core-Offset Microfiber and Ferrofluid. *IEEE Photonics Technology Letters*, **2014**, 26, 1581-1584	2.2	22
165	Blue-violet light second harmonic generation with CMTC crystals. *Journal of Materials Science Letters*, **2000**, 19, 1255-1257		22
164	Surface plasmon resonance sensor based on exposed-core microstructured optical fibres. *Electronics Letters*, **2015**, 51, 714-715	1.1	21
163	The Antibody-Free Recognition of Cancer Cells Using Plasmonic Biosensor Platforms with the Anisotropic Resonant Metasurfaces. *ACS Applied Materials & Interfaces*, **2020**, 12, 11388-11396	9.5	21
162	Relative Humidity Sensor Based on No-Core Fiber Coated by Agarose-Gel Film. *Sensors*, **2017**, 17,	3.8	21
161	Temperature Sensor Based on Hollow Fiber Filled with Graphene-Ag Composite Nanowire and Liquid. *Plasmonics*, **2017**, 12, 1805-1811	2.4	19
160	Optical tuning of dielectric properties of Ba0.6Sr0.4TiO3-La(Mg0.5Ti0.5)O3 ceramics in the terahertz range. *Applied Physics Letters*, **2013**, 103, 191111	3.4	19

159	High-energy and ultra-wideband tunable terahertz source with DAST crystal via difference frequency generation. *Applied Physics B: Lasers and Optics*, **2018**, 124, 1	1.9	18
158	Low operating voltage ambipolar graphene oxide-floating-gate memory devices based on quantum dots. *Journal of Materials Chemistry C*, **2016**, 4, 1420-1424	7.1	18
157	A fast response, self-powered and room temperature near infrared-terahertz photodetector based on a MAPbI3/PEDOT:PSS composite. *Journal of Materials Chemistry C*, **2020**, 8, 12148-12154	7.1	18
156	Refractive Index and Temperature Sensing Based on Surface Plasmon Resonance and Directional Resonance Coupling in a PCF. *IEEE Photonics Journal*, **2017**, 9, 1-7	1.8	17
155	Methyl substitution for noncentrosymmetric stacking: a promising organic single crystal for highly efficient terahertz-wave generation. *Journal of Materials Chemistry C*, **2020**, 8, 4226-4233	7.1	17
154	Ambipolar Quantum-Dot-Based Low-Voltage Nonvolatile Memory with Double Floating Gates. *ACS Photonics*, **2017**, 4, 2220-2227	6.3	17
153	Terahertz toroidal metasurface biosensor for sensitive distinction of lung cancer cells. *Nanophotonics*, **2021**,	6.3	17
152	High-performance PbS quantum dot vertical field-effect phototransistor using graphene as a transparent electrode. *Applied Physics Letters*, **2016**, 109, 263101	3.4	17
151	A Refractive Index Sensor Based on PCF With Ultra-Wide Detection Range. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-8	3.8	17
150	Metal□Graphene Hybrid Chiral Metamaterials for Tunable Circular Dichroism. *Annalen Der Physik*, **2020**, 532, 2000065	2.6	16
149	Simultaneous Measurement of Temperature and Relative Humidity Based on a Microfiber Sagnac Loop and MoS2. *Journal of Lightwave Technology*, **2020**, 38, 840-845	4	16
148	All-Optical Switchable Vanadium Dioxide Integrated Coding Metasurfaces for Wavefront and Polarization Manipulation of Terahertz Beams. *Advanced Theory and Simulations*, **2020**, 3, 1900183	3.5	16
147	High-performance photodetector using CsPbBr3 perovskite nanocrystals and graphene hybrid channel. *Journal of Materials Science*, **2021**, 56, 2341-2346	4.3	16
146	Design of a Tunable Single-Polarization Photonic Crystal Fiber Filter With Silver-Coated and Liquid-Filled Air Holes. *IEEE Photonics Journal*, **2017**, 9, 1-8	1.8	15
145	Molecular design on isoxazolone-based derivatives with large second-order harmonic generation effect and terahertz wave generation. *CrystEngComm*, **2016**, 18, 3667-3673	3.3	15
144	Low-voltage all-inorganic perovskite quantum dot transistor memory. *Applied Physics Letters*, **2018**, 112, 212101	3.4	15
143	Terahertz Imaging Based on Morphological Reconstruction. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 1-7	3.8	14
142	Self-Powered Colloidal Wurtzite-Structure Quantum Dots Photodetectors Based On Photoinduced-Pyroelectric Effect. *Advanced Optical Materials*, **2018**, 6, 1800639	8.1	14

141	Coherent Random Lasing in Colloidal Quantum Dot-Doped Polymer-Dispersed Liquid Crystal with Low Threshold and High Stability. *Journal of Physical Chemistry Letters*, **2020**, 11, 767-774	6.4	13
140	Broadband photoelectric tunable quantum dot based resistive random access memory. *Journal of Materials Chemistry C*, **2020**, 8, 2178-2185	7.1	13
139	Tunable Surface Plasmon Resonance Sensor Based on Photonic Crystal Fiber Filled with Gold Nanoshells. *Plasmonics*, **2018**, 13, 763-770	2.4	13
138	Photoerasable Organic Field-Effect Transistor Memory Based on a One-Step Solution-Processed Hybrid Floating Gate Layer. *Journal of Physical Chemistry C*, **2020**, 124, 23343-23351	3.8	13
137	All-Dielectric Metasurface for Manipulating the Superpositions of Orbital Angular Momentum via Spin-Decoupling. *Advanced Optical Materials*, **2021**, 9, 2002007	8.1	13
136	Optically tunable all-silicon chiral metasurface in terahertz band. *Applied Physics Letters*, **2021**, 118, 051101	3.4	13
135	Reflective Liquid Level Sensor Based on Parallel Connection of Cascaded FBG and SNCS Structure. *IEEE Sensors Journal*, **2017**, 17, 1347-1352	4	12
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133	Magnetic Field Tunability of Square Tapered No-Core Fibers Based on Magnetic Fluid. *Journal of Lightwave Technology*, **2014**, 32, 4600-4605	4	12
132	A Dual-Parameter Sensor Using a Long-Period Grating Concatenated With Polarization Maintaining Fiber in Sagnac Loop. *IEEE Sensors Journal*, **2016**, 16, 4326-4330	4	12
131	Growth, transmission, Raman spectrum and THz generation of DAST crystal. *RSC Advances*, **2016**, 6, 101389-101394	3.7	12
130	Terahertz Radiation Modulated by Confinement of Picosecond Current Based on Patterned Ferromagnetic Heterostructures. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1900057	2.5	11
129	Improved Numerical Calculation of the Single-Mode-No-Core-Single-Mode Fiber Structure Using the Fields Far from Cutoff Approximation. *Sensors*, **2017**, 17,	3.8	11
128	Orientation-dependent THz emission in non-collinear antiferromagnetic Mn3Sn and Mn3Sn-based heterostructures. *Applied Physics Letters*, **2019**, 115, 182402	3.4	11
127	Compact High-Repetition-Rate Monochromatic Terahertz Source Based on Difference Frequency Generation from a Dual-Wavelength Nd:YAG Laser and DAST Crystal. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2017**, 38, 87-95	2.2	11
126	Stable terahertz toroidal dipolar resonance in a planar metamaterial. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 1388-1393	1.3	11
125	Proposal to Produce Coupled Resonator-Induced Transparency and Bistability Using Microresonator Enhanced Mach–Zehnder Interferometer. *IEEE Photonics Technology Letters*, **2008**, 20, 529-531	2.2	11
124	Terahertz spectroscopic diagnosis of early blast-induced traumatic brain injury in rats. *Biomedical Optics Express*, **2020**, 11, 4085-4098	3.5	11

123	A Highly Sensitive Magnetic Field Sensor Based on a Tapered Microfiber. *IEEE Photonics Journal*, **2018**, 10, 1-8	1.8	11
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121	Label-free bacterial colony detection and viability assessment by continuous-wave terahertz transmission imaging. *Journal of Biophotonics*, **2018**, 11, e201700386	3.1	10
120	Direct thermal tuning of the terahertz plasmonic response of semiconductor metasurface. *Journal of Electromagnetic Waves and Applications*, **2015**, 29, 2512-2522	1.3	10
119	All-fiber seawater salinity sensor based on fiber laser intracavity loss modulation with low detection limit. *Optics Express*, **2019**, 27, 1529-1537	3.3	10
118	High-Repetition-Rate Terahertz Generation in QPM GaAs With a Compact Efficient 2- $mu text{m}$ KTP OPO. *IEEE Photonics Technology Letters*, **2016**, 28, 1501-1504	2.2	10
117	All-dielectric chiral coding metasurface based on spin-decoupling in terahertz band. *Nanophotonics*, **2021**, 10, 1347-1355	6.3	10
116	Multidimensional microstructured photonic device based on all-solid waveguide array fiber and magnetic fluid. *Nanophotonics*, **2017**, 6, 357-363	6.3	9
115	Dark mode tailored electromagnetically induced transparency in terahertz metamaterials. *Applied Physics B: Lasers and Optics*, **2019**, 125, 1	1.9	9
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111	Terahertz probe of nonequilibrium carrier dynamics and ultrafast photocurrents in the topological insulator Sb2Te3. *Applied Physics Letters*, **2021**, 118, 011102	3.4	9
110	High-Resolution Temperature Sensor Based on Single-Frequency Ring Fiber Laser via Optical Heterodyne Spectroscopy Technology. *Sensors*, **2018**, 18,	3.8	9
109	Terahertz magnon and crystal-field transition manipulated by R3+-Fe3+ interaction in Sm0.5Pr0.5FeO3. *Applied Physics Letters*, **2018**, 113, 022401	3.4	8
108	Short Channel Quantum Dot Vertical and Lateral Phototransistors. *Advanced Optical Materials*, **2017**, 5, 1600434	8.1	8
107	Remote Gas Pressure Sensor Based on Fiber Ring Laser Embedded With Fabry□□ot Interferometer and Sagnac Loop. *IEEE Photonics Journal*, **2016**, 8, 1-8	1.8	7
106	A polarization-independent terahertz plasmon-induced transparency metamaterial based on hybrid graphene-gold structure for bio-sensing. *Journal of Modern Optics*, **2016**, 63, 200-206	1.1	7

105	Simulation of LSPR Sensor Based on Exposed-Core Grapefruit Fiber With a Silver Nanoshell. *Journal of Lightwave Technology*, **2017**, 35, 4728-4733	4	7
104	Multipoint velocity interferometer system for any reflector. *Review of Scientific Instruments*, **1999**, 70, 3872-3876	1.7	7
103	High-Resolution Temperature Sensor Based on Intracavity Sensing of Fiber Ring Laser. *Journal of Lightwave Technology*, **2020**, 38, 2010-2014	4	7
102	Ultrasharp LSPR Temperature Sensor Based on Grapefruit Fiber Filled With a Silver Nanoshell and Liquid. *Journal of Lightwave Technology*, **2020**, 38, 2015-2021	4	7
101	Analysis of Hollow Fiber Temperature Sensor Filled with Graphene-Ag Composite Nanowire and Liquid. *Sensors*, **2016**, 16,	3.8	7
100	All-silicon metasurfaces for polarization multiplexed generation of terahertz photonic orbital angular momentum superposition states. *Journal of Materials Chemistry C*, **2021**, 9, 5478-5485	7.1	7
99	Effect of Optical Pump on the Dielectric Properties of LiTaO3 in Terahertz Range. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2015**, 36, 1-6	2.2	6
98	Characterizing the oil and water distribution in low permeability core by reconstruction of terahertz images. *Science China: Physics, Mechanics and Astronomy*, **2016**, 59, 1	3.6	6
97	Surface plasmon resonance biosensor based on large size square-lattice photonic crystal fiber. *Journal of Modern Optics*, **2016**, 63, 793-797	1.1	6
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95	Controlling terahertz radiation with subwavelength blocky patterned CoFeB/Pt heterostructures. *Applied Physics Express*, **2019**, 12, 122003	2.4	6
94	Study of the dielectric characteristics of living glial-like cells using terahertz ATR spectroscopy. *Biomedical Optics Express*, **2019**, 10, 5351-5361	3.5	6
93	Widely tunable eye-safe optical parametric oscillator with noncollinear phase-matching in a ring cavity. *Optics Express*, **2019**, 27, 10449-10455	3.3	6
92	Horizontal-scanning attenuated total reflection terahertz imaging for biological tissues. *Neurophotonics*, **2020**, 7, 025005	3.9	6
91	Research on Optical Fiber Sensor Localization Based on the Partial Discharge Ultrasonic Characteristics in Long-Distance XLPE Cables. *IEEE Access*, **2020**, 8, 184744-184751	3.5	6
90	Polymer-coated quartz tuning fork for enhancing the sensitivity of laser-induced thermoelastic spectroscopy. *Optics Express*, **2021**, 29, 12195-12205	3.3	6
89	Dynamically Tunable Graphene Plasmon-Induced Transparency in the Terahertz Region. *Journal of Lightwave Technology*, **2016**, 1-1	4	6
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86	Ultra-Wideband Low-Loss Control of Terahertz Scatterings via an All-Dielectric Coding Metasurface. *ACS Applied Electronic Materials*, **2020**, 2, 1122-1129	4	5
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84	THz source based on optical Cherenkov radiation. *Science China Information Sciences*, **2012**, 55, 27-34	3.4	5
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80	Photoresponse properties and energy gap of CsPbBr3‐CsPb2Br5 compound thin film prepared by one-step thermal evaporation method. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 4956-4962	2.1	4
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78	Active KTaO hybrid terahertz metamaterial. *Scientific Reports*, **2017**, 7, 6072	4.9	4
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73	Terahertz Computed Tomography of High-Refractive-Index Objects Based on Refractive Index Matching. *IEEE Photonics Journal*, **2018**, 10, 1-13	1.8	4
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58	All-silicon chiral metasurfaces and wavefront shaping assisted by interference. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	3
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53	Enhanced Terahertz Wave Generation via Stokes Wave Recycling in Non-Synchronously Picosecond Pulse Pumped Terahertz Source. *IEEE Photonics Journal*, **2019**, 11, 1-8	1.8	2
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48	Polarization-Maintaining Performance of Solid-Core Anti-Resonant Fiber with Nested Circular Tubes in 3 m Wavelength. *Journal of Lightwave Technology*, **2021**, 1-1	4	2
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