

Yuen Hong Tsang

List of Publications by Citations

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181
papers

6,232
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189
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7,599
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
181	Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9142-9149	13	264
180	Highly Polarization-Sensitive, Broadband, Self-Powered Photodetector Based on Graphene/PdSe/Germanium Heterojunction. <i>ACS Nano</i> , 2019 , 13, 9907-9917	16.7	218
179	Fast, Self-Driven, Air-Stable, and Broadband Photodetector Based on Vertically Aligned PtSe ₂ /GaAs Heterojunction. <i>Advanced Functional Materials</i> , 2018 , 28, 1705970	15.6	207
178	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1806878	15.6	187
177	Multilayered PdSe/Perovskite Schottky Junction for Fast, Self-Powered, Polarization-Sensitive, Broadband Photodetectors, and Image Sensor Application. <i>Advanced Science</i> , 2019 , 6, 1901134	13.6	170
176	High-responsivity UV-Vis Photodetector Based on Transferable WS ₂ Film Deposited by Magnetron Sputtering. <i>Scientific Reports</i> , 2016 , 6, 20343	4.9	156
175	Ultrafast and sensitive photodetector based on a PtSe ₂ /silicon nanowire array heterojunction with a multiband spectral response from 200 to 1550 nm. <i>NPG Asia Materials</i> , 2018 , 10, 352-362	10.3	136
174	Controllable Growth of Large-Size Crystalline MoS ₂ and Resist-Free Transfer Assisted with a Cu Thin Film. <i>Scientific Reports</i> , 2015 , 5, 18596	4.9	130
173	Ultrafast, Self-Driven, and Air-Stable Photodetectors Based on Multilayer PtSe/Perovskite Heterojunctions. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1185-1194	6.4	119
172	In-situ fabrication of PtSe ₂ /GaN heterojunction for self-powered deep ultraviolet photodetector with ultrahigh current on/off ratio and detectivity. <i>Nano Research</i> , 2019 , 12, 183-189	10	117
171	Two-dimensional nanomaterials for photocatalytic CO ₂ reduction to solar fuels. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1875-1898	5.8	115
170	Graphene oxide/WS ₂ /Mg-doped ZnO nanocomposites for solar-light catalytic and anti-bacterial applications. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 160, 43-53	6.4	112
169	Tellurite glass lasers operating close to 2 μ m. <i>Laser Physics Letters</i> , 2010 , 7, 177-193	1.5	112
168	Design of 2D Layered PtSe ₂ Heterojunction for the High-Performance, Room-Temperature, Broadband, Infrared Photodetector. <i>ACS Photonics</i> , 2018 , 5, 3820-3827	6.3	105
167	Efficient approximately 2 microm Tm ³⁺ -doped tellurite fiber laser. <i>Optics Letters</i> , 2008 , 33, 402-4	3	105
166	Multifunctional Sensor Based on Porous Carbon Derived from Metal-Organic Frameworks for Real Time Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3986-3993	9.5	94
165	Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a Core-Shell Nanostructure. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12356-60	16.4	93

164	Recycled waste black polyurethane sponges for solar vapor generation and distillation. <i>Applied Energy</i> , 2017 , 206, 63-69	10.7	89
163	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm . <i>Advanced Materials</i> , 2020 , 32, e2004412 ²⁴		86
162	Infrared emission and energy transfer in Tm(3+), Tm(3+)-Ho(3+) and Tm(3+)-Yb(3+)-doped tellurite fibre. <i>Optics Express</i> , 2007 , 15, 6546-51	3.3	84
161	Tunable active edge sites in PtSe ₂ films towards hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 42, 26-33	17.1	77
160	Preparation and characterization of few-layer MoS ₂ nanosheets and their good nonlinear optical responses in the PMMA matrix. <i>Nanoscale</i> , 2014 , 6, 9713-9	7.7	76
159	Bifunctional Au@Pt core-shell nanostructures for in situ monitoring of catalytic reactions by surface-enhanced Raman scattering spectroscopy. <i>Nanoscale</i> , 2014 , 6, 9063-70	7.7	74
158	Role of hydroxylation modification on the structure and property of reduced graphene oxide/TiO ₂ hybrids. <i>Applied Surface Science</i> , 2016 , 382, 225-238	6.7	74
157	Efficient 2.96 microm dysprosium-doped fluoride fibre laser pumped with a Nd:YAG laser operating at 1.3 microm. <i>Optics Express</i> , 2006 , 14, 678-85	3.3	69
156	Perovskite/Silicon Tandem Solar Cells: From Detailed Balance Limit Calculations to Photon Management. <i>Nano-Micro Letters</i> , 2019 , 11, 58	19.5	68
155	Photocatalytic and electrochemical performance of three-Dimensional reduced graphene Oxide/WS ₂ /Mg-doped ZnO composites. <i>Applied Surface Science</i> , 2017 , 400, 129-138	6.7	64
154	Superbroadband near-IR photoluminescence from Pr ³⁺ -doped fluorotellurite glasses. <i>Optics Express</i> , 2012 , 20, 3803-13	3.3	62
153	Graphene Oxide Absorbers for Watt-Level High-Power Passive Mode-Locked Nd:GdVO ₄ Laser Operating at 1 μm . <i>Journal of Lightwave Technology</i> , 2012 , 30, 3259-3262	4	61
152	Enhanced SERS Stability of R6G Molecules with Monolayer Graphene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11827-11832	3.8	59
151	A Yb ³⁺ /Tm ³⁺ /Ho ³⁺ triply-doped tellurite fibre laser. <i>Optics Express</i> , 2008 , 16, 10690-5	3.3	59
150	Core-shell nanoarchitecture: a strategy to significantly enhance white-light upconversion of lanthanide-doped nanoparticles. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4313	7.1	57
149	Tm(3+)/Ho(3+) codoped tellurite fiber laser. <i>Optics Letters</i> , 2008 , 33, 1282-4	3	57
148	Metal-organic framework derived porous carbon of light trapping structures for efficient solar steam generation. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 196, 36-42	6.4	54
147	Highly sensitive solar-blind deep ultraviolet photodetector based on graphene/PtSe ₂ /EGa ₂ O ₃ 2D/3D Schottky junction with ultrafast speed. <i>Nano Research</i> , 2021 , 14, 1973-1979	10	52

146	Phosphorus Incorporation into Co S Nanocages for Highly Efficient Oxygen Evolution Catalysis. <i>Small</i> , 2019 , 15, e1904507	11	51
145	High-performance MoS ₂ /Si heterojunction broadband photodetectors from deep ultraviolet to near infrared. <i>Optics Letters</i> , 2017 , 42, 3335-3338	3	49
144	Active site engineering of Fe- and Ni-sites for highly efficient electrochemical overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21445-21451	13	48
143	Vertically standing PtSe ₂ film: a saturable absorber for a passively mode-locked Nd:LuVO ₄ laser. <i>Photonics Research</i> , 2018 , 6, 750	6	47
142	In situ SERS monitoring of photocatalytic organic decomposition using recyclable TiO ₂ -coated Ag nanowire arrays. <i>Applied Surface Science</i> , 2014 , 301, 351-357	6.7	47
141	Fabrication of Covalently Functionalized Graphene Oxide Incorporated Solid-State Hybrid Silica Gel Glasses and Their Improved Nonlinear Optical Response. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23108-23116	3.8	47
140	Tuning nonlinear optical absorption properties of WS ₂ nanosheets. <i>Nanoscale</i> , 2015 , 7, 17771-7	7.7	46
139	High power 1.9 μ m Tm ³⁺ -silica fibre laser pumped at 1.09 μ m by a Yb ³⁺ -silica fibre laser. <i>Optics Communications</i> , 2004 , 231, 357-364	2	46
138	Enhanced light emission near 2.7 μ m from Er ³⁺ /Nd ³⁺ co-doped germanate glass. <i>Optical Materials</i> , 2013 , 35, 1247-1250	3.3	44
137	Highly-sensitive epinephrine sensors based on organic electrochemical transistors with carbon nanomaterial modified gate electrodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6532-6538	7.1	43
136	Mass transport mechanism of Cu species at the metal/dielectric interfaces with a graphene barrier. <i>ACS Nano</i> , 2014 , 8, 12601-11	16.7	43
135	Photovoltaic high-performance broadband photodetector based on MoS ₂ /Si nanowire array heterojunction. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 182, 272-280	6.4	42
134	Simultaneous multi-frequency topological edge modes between one-dimensional photonic crystals. <i>Optics Letters</i> , 2016 , 41, 1644-7	3	42
133	Nanophotonic design of perovskite/silicon tandem solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3625-3633	13	41
132	Efficient amorphous silicon solar cells: characterization, optimization, and optical loss analysis. <i>Results in Physics</i> , 2017 , 7, 4287-4293	3.7	41
131	All-Fiber Dissipative Solitons Evolution in a Compact Passively Yb-Doped Mode-Locked Fiber Laser. <i>Journal of Lightwave Technology</i> , 2012 , 30, 2502-2507	4	41
130	Adsorption, photocatalytic and sunlight-driven antibacterial activity of Bi ₂ WO ₆ /graphene oxide nanoflakes. <i>Vacuum</i> , 2015 , 116, 48-53	3.7	40
129	An Ytterbium-doped fiber laser with dark and Q-switched pulse generation using graphene-oxide as saturable absorber. <i>Optics Communications</i> , 2014 , 312, 227-232	2	39

128	MnOx quantum dots decorated reduced graphene oxide/TiO2 nanohybrids for enhanced activity by a UV pre-catalytic microwave method. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 500-512	21.8	38
127	Valence Engineering Dual-Cation and Boron Doping in Pyrite Selenide for Highly Efficient Oxygen Evolution. <i>ACS Nano</i> , 2019 , 13, 11469-11476	16.7	37
126	Laser Q-switching with PtS microflakes saturable absorber. <i>Optics Express</i> , 2018 , 26, 13055-13060	3.3	37
125	Perovskite/perovskite planar tandem solar cells: A comprehensive guideline for reaching energy conversion efficiency beyond 30%. <i>Nano Energy</i> , 2021 , 79, 105400	17.1	37
124	Ultrasmall 2D NbSe2 based quantum dots used for low threshold ultrafast lasers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12638-12642	7.1	37
123	Enhanced ~ 2 μ s and upconversion emission from Ho ³⁺ /B ³⁺ codoped oxyfluoride glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2013 , 361, 13-16	3.9	35
122	Bilayer graphene based surface passivation enhanced nano structured self-powered near-infrared photodetector. <i>Optics Express</i> , 2015 , 23, 4839-46	3.3	33
121	104 W high stability green laser generation by using diode laser pumped intracavity frequency-doubling Q-switched composite ceramic Nd:YAG laser. <i>Optics Express</i> , 2007 , 15, 3991-7	3.3	33
120	High-average-power, high-repetition-rate tunable terahertz difference frequency generation with GaSe crystal pumped by 2 μ s dual-wavelength intracavity KTP optical parametric oscillator. <i>Photonics Research</i> , 2017 , 5, 82	6	32
119	Approaching Perfect Light Incoupling in Perovskite and Silicon Thin Film Solar Cells by Moth Eye Surface Textures. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1800030	3.5	30
118	Compact broadband amplified spontaneous emission in Tm ³⁺ -doped tungsten tellurite glass double-cladding single-mode fiber. <i>Optical Materials Express</i> , 2013 , 3, 723	2.6	30
117	Optical limiting properties of a few-layer MoS2/PMMA composite under excitation of ultrafast laser pulses. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 495-502	7.1	29
116	Near- and mid-infrared photoluminescence in Ho ³⁺ doped and Ho ³⁺ /B ³⁺ codoped low-phonon-energy germanotellurite glasses. <i>Journal of Luminescence</i> , 2013 , 137, 132-137	3.8	29
115	Efficient 2.7 micron emission from Er ³⁺ /Pr ³⁺ codoped oxyfluorotellurite glass. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 3403-3406	3.9	29
114	Superbroadband near-infrared emission and energy transfer in Pr ³⁺ -Er ³⁺ codoped fluorotellurite glasses. <i>Optics Express</i> , 2012 , 20, 12205-11	3.3	29
113	The WS2 quantum dot: preparation, characterization and its optical limiting effect in polymethylmethacrylate. <i>Nanotechnology</i> , 2016 , 27, 414005	3.4	28
112	Effect of back reflectors on photon absorption in thin-film amorphous silicon solar cells. <i>Applied Nanoscience (Switzerland)</i> , 2017 , 7, 489-497	3.3	28
111	Enhanced 2.0 μ s emission and energy transfer in Yb ³⁺ /Ho ³⁺ /Ce ³⁺ triply doped tellurite glass. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1644-1648	3.9	28

110	Technique and model for modifying the saturable absorption (SA) properties of 2D nanofilms by considering interband exciton recombination. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7501-7511	7.1	27
109	An L-band graphene-oxide mode-locked fiber laser delivering bright and dark pulses. <i>Laser Physics</i> , 2013 , 23, 075105	1.2	27
108	Passively Q-Switched Nd:YVO4 Laser Using WS2 Saturable Absorber Fabricated by Radio Frequency Magnetron Sputtering Deposition. <i>Journal of Lightwave Technology</i> , 2017 , 35, 4120-4124	4	27
107	Efficient lasing at near 3 μm by a Dy-doped ZBLAN fiber laser pumped at $\sim 1.1 \mu\text{m}$ by an Yb fiber laser. <i>Laser Physics Letters</i> , 2011 , 8, 818-822	1.5	27
106	A comparative study of preparation methods of nanoporous TiO2 films for microfluidic photocatalysis. <i>Microelectronic Engineering</i> , 2011 , 88, 2797-2799	2.5	27
105	Ultrafast Laser Pulses Generation by Using 2D Layered PtS2 as a Saturable Absorber. <i>Journal of Lightwave Technology</i> , 2019 , 37, 1174-1179	4	27
104	Enhanced Photocatalytic Activity of WS Film by Laser Drilling to Produce Porous WS/WO Heterostructure. <i>Scientific Reports</i> , 2017 , 7, 3125	4.9	25
103	Optics of Perovskite Solar Cell Front Contacts. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14693-14701	4.5	24
102	On the interplay of cell thickness and optimum period of silicon thin-film solar cells: light trapping and plasmonic losses. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 379-388	6.8	24
101	Broadband amplified spontaneous emission fibre source near 2 μm using resonant in-band pumping. <i>Journal of Modern Optics</i> , 2005 , 52, 109-118	1.1	23
100	Passively Q-switched and femtosecond mode-locked erbium-doped fiber laser based on a 2D palladium disulfide (PdS2) saturable absorber. <i>Photonics Research</i> , 2020 , 8, 511	6	23
99	Ultrafast laser pulse (115 fs) generation by using direct bandgap ultrasmall 2D GaTe quantum dots. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5937-5944	7.1	22
98	Synthesis of reduced graphene oxide/EBi2Mo3O12 @ EBi2O3 heterojunctions by organic electrolytes assisted UV-excited method. <i>Chemical Engineering Journal</i> , 2014 , 257, 309-316	14.7	22
97	Three operation regimes with an L-band ultrafast fiber laser passively mode-locked by graphene oxide saturable absorber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 716	1.7	22
96	Passively Q-switched Ytterbium-doped fiber laser based on broadband multilayer Platinum Ditelluride (PtTe) saturable absorber. <i>Scientific Reports</i> , 2019 , 9, 10106	4.9	21
95	3W high-power laser passively mode-locked by graphene oxide saturable absorber. <i>Optics Communications</i> , 2013 , 298-299, 168-170	2	21
94	Graphene-Oxide-Based Q-Switched Fiber Laser with Stable Five-Wavelength Operation. <i>Chinese Physics Letters</i> , 2012 , 29, 114206	1.8	21
93	Spray Pyrolyzed TiO Embedded Multi-Layer Front Contact Design for High-Efficiency Perovskite Solar Cells. <i>Nano-Micro Letters</i> , 2021 , 13, 36	19.5	21

92	Highly efficient photocatalytic performance of graphene oxide/TiO ₂ Bi ₂ O ₃ hybrid coating for organic dyes and NO gas. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 3385-3391	2.1	20
91	Influence of Perovskite Interface Morphology on the Photon Management in Perovskite/Silicon Tandem Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15080-15086	9.5	20
90	Microfluidic chip-based one-step fabrication of an artificial photosystem I for photocatalytic cofactor regeneration. <i>RSC Advances</i> , 2016 , 6, 101974-101980	3.7	19
89	Record performance from a Q-switched Er ³⁺ :Yb ³⁺ :YVO ₄ laser. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 96, 11-17	1.9	19
88	Electrical and Optical Properties of Nickel-Oxide Films for Efficient Perovskite Solar Cells. <i>Small Methods</i> , 2020 , 4, 2000454	12.8	19
87	Enhanced photocatalytic properties of graphene oxide/ZnO nanohybrid by Mg dopants. <i>Physica Scripta</i> , 2015 , 90, 025806	2.6	18
86	Mode-locked Nd: GdVO ₄ laser with graphene oxide/polyvinyl alcohol composite material absorber as well as an output coupler. <i>Optics Communications</i> , 2013 , 289, 119-122	2	18
85	Yb-doped passively mode-locked fiber laser based on a single wall carbon nanotubes wallpaper absorber. <i>Optics and Laser Technology</i> , 2013 , 47, 144-147	4.2	18
84	Broadband amplified spontaneous emission double-clad fibre source with central wavelengths near 2 μ m. <i>Journal of Modern Optics</i> , 2006 , 53, 991-1001	1.1	18
83	Perovskite Color Detectors: Approaching the Efficiency Limit. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47831-47839	9.5	18
82	Sub-100ns solid-state laser Q-switched with double wall carbon nanotubes. <i>Optics Communications</i> , 2013 , 306, 128-130	2	17
81	Spectroscopic and lasing studies of Ce ³⁺ :Er ³⁺ :Yb ³⁺ :YVO ₄ crystals. <i>Laser Physics Letters</i> , 2011 , 8, 729-735	1.5	17
80	Effect of laser illumination on the morphology and optical property of few-layer MoS ₂ nanosheet in NMP and PMMA. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 678-683	7.1	16
79	Output dynamics and stabilisation of a multi-mode double-clad Yb-doped silica fibre laser. <i>Optics Communications</i> , 2006 , 259, 236-241	2	16
78	Vertically Stacked Perovskite Detectors for Color Sensing and Color Vision. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000459	4.6	15
77	Fabrication of MAPbBr ₃ Single Crystal p-n Photodiode and n-p-n Phototriode for Sensitive Light Detection Application. <i>Advanced Functional Materials</i> , 2020 , 30, 2001033	15.6	15
76	Efficient high power Yb ³⁺ -silica fibre laser cladding-pumped at 1064 nm. <i>Optics Communications</i> , 2003 , 215, 381-387	2	15
75	Large-diameter titanium dioxide nanotube arrays as a scattering layer for high-efficiency dye-sensitized solar cell. <i>Nanoscale Research Letters</i> , 2014 , 9, 362	5	14

74	High photoelectrochemical activity and stability of Au-WS ₂ /silicon heterojunction photocathode. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 300-306	6.4	13
73	Multi-walled carbon nanotube as a saturable absorber for a passively mode-locked Nd:YVO ₄ laser. <i>Laser Physics Letters</i> , 2013 , 10, 055805	1.5	13
72	Holmium, praseodymium-doped fluoride fiber laser operating near 2.87 μm and pumped with a Nd:YAG laser. <i>Journal of Lightwave Technology</i> , 2005 , 23, 4315-4320	4	13
71	Non-resonant metal-oxide metasurfaces for efficient perovskite solar cells. <i>Solar Energy</i> , 2020 , 198, 570-587	6.37	12
70	Atomic layer deposition of metal oxides for efficient perovskite single-junction and perovskite/silicon tandem solar cells. <i>RSC Advances</i> , 2020 , 10, 14856-14866	3.7	12
69	20 W High-Power Picosecond Single-Walled Carbon Nanotube Based MOPA Laser System. <i>Journal of Lightwave Technology</i> , 2012 , 30, 2713-2717	4	12
68	Intense Near-UV Upconversion Luminescence in $\text{Tm}^{3+}/\text{Yb}^{3+}$ Co-Doped Low-Phonon-Energy Lithium Gallogermanate Oxide Glass. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1726-1729	2.2	12
67	Utilization of group 10 2D TMDs-PdSe as a nonlinear optical material for obtaining switchable laser pulse generation modes. <i>Nanotechnology</i> , 2021 , 32, 055201	3.4	12
66	Controllable optical emission wavelength in all-inorganic halide perovskite alloy microplates grown by two-step chemical vapor deposition. <i>Nano Research</i> , 2020 , 13, 2939-2949	10	12
65	Near field control for enhanced photovoltaic performance and photostability in perovskite solar cells. <i>Nano Energy</i> , 2021 , 89, 106388	17.1	12
64	Improved multiphoton ultraviolet upconversion photoluminescence in ultrasmall core-shell nanocrystals. <i>Optics Letters</i> , 2014 , 39, 6265-8	3	11
63	Ultrafast Yb-Doped Fiber Laser Using Few Layers of PdS Saturable Absorber. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
62	Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a Core-Shell Nanostructure. <i>Angewandte Chemie</i> , 2016 , 128, 12544-12548	3.6	11
61	High-power passively mode-locked Nd:YVO ₄ laser using SWCNT saturable absorber fabricated by dip coating method. <i>Optics Express</i> , 2015 , 23, 4880-6	3.3	10
60	Silver nanoparticle-decorated graphene oxide for surface-enhanced Raman scattering detection and optical limiting applications. <i>Journal of Materials Science</i> , 2018 , 53, 573-580	4.3	10
59	$\sim 2 \text{ W}$ $\text{Tm}^{3+}/\text{Yb}^{3+}$ -doped tellurite fibre laser. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 317-320	2.1	10
58	Solar Driven Interfacial Steam Generation Derived from Biodegradable Luffa Sponge. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2000291	5.9	10
57	Fabrication of 2D PdSe/3D CdTe Mixed-Dimensional van der Waals Heterojunction for Broadband Infrared Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41791-41801	9.5	10

56	Enhancing the energy conversion efficiency of low mobility solar cells by a 3D device architecture. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10289-10296	7.1	9
55	InSe nanosheets with broadband saturable absorption used for near-infrared femtosecond laser mode locking. <i>Nanotechnology</i> , 2019 , 30, 465704	3.4	9
54	Improved anatase phase stability in small diameter TiO ₂ nanotube arrays for high performance dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2014 , 607, 50-53	5.7	9
53	Intense near-infrared emission of 1.23 μm in erbium-doped low-phonon-energy fluorotellurite glass. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 111, 49-53	4.4	9
52	Superbroadband NIR Photoluminescence in $\text{Nd}^{3+}/\text{Tm}^{3+}/\text{Er}^{3+}$ Codoped Fluorotellurite Glasses. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 924-926	2.2	9
51	Fabrication and characterization of fibre Bragg gratings for near 2 μm operation. <i>Measurement Science and Technology</i> , 2003 , 14, 1747-1752	2	9
50	Ultra-high adsorption of cationic methylene blue on two dimensional titanate nanosheets.. <i>RSC Advances</i> , 2019 , 9, 5891-5894	3.7	9
49	Photodetectors: Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications (Adv. Funct. Mater. 1/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970005	15.6	9
48	Improved Nanophotonic Front Contact Design for High-Performance Perovskite Single-Junction and Perovskite/Perovskite Tandem Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100509	7.1	9
47	Low-temperature treated anatase TiO ₂ nanophotonic-structured contact design for efficient triple-cation perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 426, 131831	14.7	9
46	Broadband 1.20μm emission in Tm ³⁺ -doped and Tm ³⁺ /Tb ³⁺ , Eu ³⁺ codoped gallogermanate glasses. <i>Optical Materials</i> , 2012 , 34, 1776-1780	3.3	8
45	Photoluminescence of PdS and PdSe quantum dots.. <i>RSC Advances</i> , 2019 , 9, 38077-38084	3.7	8
44	Time and pressure dependent deformation of microcontact printed channels fabricated using self-assembled monolayers of alkanethiol on gold. <i>Journal of Science: Advanced Materials and Devices</i> , 2017 , 2, 385-391	4.2	7
43	Fabrication of luminescent PtS ₂ quantum dots. <i>Journal of Luminescence</i> , 2019 , 211, 227-232	3.8	7
42	The generation of dissipative solitons in an all-fiber passively mode-locked laser based on semiconduct type of carbon nanotubes absorber. <i>Optical Fiber Technology</i> , 2013 , 19, 200-205	2.4	7
41	Broadband conversion of ultraviolet to visible and near-infrared emission in Gd ³⁺ /Yb ³⁺ codoped germanate glass. <i>Journal of Non-Crystalline Solids</i> , 2013 , 376, 26-29	3.9	7
40	High-temperature solar steam generation by MWCNT-HfTe ₂ van der Waals heterostructure for low-cost sterilization. <i>Nano Energy</i> , 2022 , 94, 106916	17.1	7
39	Microfluidic flow direction control using continuous-wave laser. <i>Sensors and Actuators A: Physical</i> , 2012 , 188, 329-334	3.9	6

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