Zhengyong Song

List of Publications by Citations

64 papers	1,483 citations	23 h-index	37 g-index
70 ext. papers	1,989 ext. citations	2.7 avg, IF	6.01 L-index

#	Paper	IF	Citations
64	Broadband tunable terahertz absorber based on vanadium dioxide metamaterials. *Optics Express*, **2018**, 26, 7148-7154	3.3	168
63	Broadband absorber with periodically sinusoidally-patterned graphene layer in terahertz range. *Optics Express*, **2017**, 25, 11223-11232	3.3	134
62	Achieving broadband absorption and polarization conversion with a vanadium dioxide metasurface in the same terahertz frequencies. *Optics Express*, **2020**, 28, 12487-12497	3.3	70
61	Terahertz toroidal metamaterial with tunable properties. *Optics Express*, **2019**, 27, 5792-5797	3.3	62
60	Omnidirectional tunable terahertz analog of electromagnetically induced transparency realized by isotropic vanadium dioxide metasurfaces. *Applied Physics Express*, **2018**, 11, 082203	2.4	60
59	Large-angle mid-infrared absorption switch enabled by polarization-independent GST metasurfaces. *Materials Letters*, **2019**, 236, 350-353	3.3	59
58	Integrated metamaterial with functionalities of absorption and electromagnetically induced transparency. *Optics Express*, **2019**, 27, 25196-25204	3.3	54
57	Terahertz switching between broadband absorption and narrowband absorption. *Optics Express*, **2020**, 28, 2037-2044	3.3	54
56	Terahertz bifunctional absorber based on a graphene-spacer-vanadium dioxide-spacer-metal configuration. *Optics Express*, **2020**, 28, 11780-11788	3.3	51
55	Making a continuous metal film transparent via scattering cancellations. *Applied Physics Letters*, **2012**, 101, 181110	3.4	48
54	Broadband tunable absorber for terahertz waves based on isotropic silicon metasurfaces. *Materials Letters*, **2019**, 234, 138-141	3.3	48
53	Simultaneous realizations of absorber and transparent conducting metal in a single metamaterial. *Optics Express*, **2020**, 28, 6565-6571	3.3	45
52	A new method for obtaining transparent electrodes. *Optics Express*, **2012**, 20, 22770-82	3.3	40
51	Pattern Synthesis of Unequally Spaced Linear Arrays Including Mutual Coupling Using Iterative FFT via Virtual Active Element Pattern Expansion. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 3950-3958	4.9	35
50	Terahertz absorption modulator with largely tunable bandwidth and intensity. *Carbon*, **2021**, 174, 617-624	10.4	30
49	Ultra-broadband terahertz absorber based on a multilayer graphene metamaterial. *Journal of Applied Physics*, **2020**, 128, 093104	2.5	28
48	Plasmonic waveguide with folded stubs for highly confined terahertz propagation and concentration. *Optics Express*, **2017**, 25, 898-906	3.3	27

47	Switchable terahertz metamaterial absorber with broadband absorption and multiband absorption. *Optics Express*, **2021**, 29, 21551-21561	3.3	27
46	Independent tuning of double plasmonic waves in a free-standing graphene-spacer-grating-spacer-graphene hybrid slab. *Optics Express*, **2016**, 24, 16961-72	3.3	25
45	Broadband cross polarization converter with unity efficiency for terahertz waves based on anisotropic dielectric meta-reflectarrays. *Materials Letters*, **2015**, 159, 269-272	3.3	24
44	Wide-angle polarization-insensitive transparency of a continuous opaque metal film for near-infrared light. *Optics Express*, **2014**, 22, 6519-25	3.3	24
43	Terahertz Absorber With Reconfigurable Bandwidth Based on Isotropic Vanadium Dioxide Metasurfaces. *IEEE Photonics Journal*, **2019**, 11, 1-7	1.8	23
42	Tailor the surface-wave properties of a plasmonic metal by a metamaterial capping. *Optics Express*, **2013**, 21, 18178-87	3.3	23
41	Bifunctional terahertz modulator for beam steering and broadband absorption based on a hybrid structure of graphene and vanadium dioxide. *Optics Express*, **2021**, 29, 23331-23340	3.3	23
40	High-Efficiency Broadband Cross Polarization Converter for Near-Infrared Light Based on Anisotropic Plasmonic Meta-surfaces. *Plasmonics*, **2016**, 11, 61-64	2.4	22
39	Ultra-broadband wide-angle terahertz absorber realized by a doped silicon metamaterial. *Optics Communications*, **2020**, 471, 125835	2	20
38	Wide-angle absorber with tunable intensity and bandwidth realized by a terahertz phase change material. *Optics Communications*, **2020**, 464, 125494	2	19
37	Physics of the zero- photonic gap: fundamentals and latest developments. *Nanophotonics*, **2012**, 1, 181-198	6.9	19
36	Adaptive Decoupling Using Tunable Metamaterials. *IEEE Transactions on Microwave Theory and Techniques*, **2016**, 64, 2730-2739	4.1	15
35	Terahertz transparency of optically opaque metallic films. *Europhysics Letters*, **2014**, 106, 27005	1.6	15
34	Multipole plasmons in graphene nanoellipses. *Physica B: Condensed Matter*, **2018**, 530, 142-146	2.8	15
33	Wideband high-efficient linear polarization rotators. *Frontiers of Physics*, **2018**, 13, 1	3.7	14
32	Isotropic wide-angle analog of electromagnetically induced transparency in a terahertz metasurface. *Materials Letters*, **2018**, 223, 90-92	3.3	14
31	Tunable Toroidal Dipolar Resonance for Terahertz Wave Enabled by a Vanadium Dioxide Metamaterial. *IEEE Photonics Journal*, **2019**, 11, 1-5	1.8	13
30	Tunable Isotropic Absorber With Phase Change Material VO2. *IEEE Nanotechnology Magazine*, **2020**, 19, 197-200	2.6	11

29	Terahertz spoof plasmonic coaxial microcavity. *Applied Optics*, **2014**, 53, 1118-23	1.7	11
28	Large-Scale Uniform Silver Nanocave Array for Visible Light Refractive Index Sensing Using Soft UV Nanoimprint. *IEEE Photonics Journal*, **2016**, 8, 1-7	1.8	10
27	Manipulating polarization and electromagnetically induced transparency in a switchable metamaterial. *Optical Materials*, **2020**, 105, 109972	3.3	9
26	Manipulating electromagnetic waves with metamaterials: Concept and microwave realizations. *Chinese Physics B*, **2014**, 23, 047808	1.2	8
25	Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves. *IEEE Photonics Journal*, **2020**, 12, 1-9	1.8	8
24	Optical cross-polarization converter with an octave bandwidth based on anisotropic plasmonic meta-surfaces. *Europhysics Letters*, **2015**, 111, 27001	1.6	7
23	Polarization-Independent Terahertz Tunable Analog of Electromagnetically Induced Transparency. *IEEE Photonics Technology Letters*, **2019**, 31, 1297-1299	2.2	7
22	Switchable bifunctional metamaterial for terahertz anomalous reflection and broadband absorption. *Physica Scripta*,	2.6	7
21	Near-infrared transparent conducting metal based on impedance matching plasmonic nanostructures. *Europhysics Letters*, **2014**, 107, 57007	1.6	6
20	Wideband polarization-insensitive dielectric switch for mid-infrared waves realized by phase change material Ge3Sb2Te6. *Europhysics Letters*, **2019**, 126, 27004	1.6	5
19	High-performance polarization beam splitter based on anisotropic plasmonic nanostructures. *Applied Physics B: Lasers and Optics*, **2018**, 124, 1	1.9	5
18	Controlling wideband absorption and electromagnetically induced transparency via a phase change material. *Europhysics Letters*, **2020**, 129, 57003	1.6	4
17	Investigation of Optical Spectrum Properties of Hexagonal Boron Nitride from Metal to Dielectric Transition. *Plasmonics*, **2018**, 13, 563-566	2.4	4
16	Broadband terahertz reflector based on dielectric metamaterials. *Europhysics Letters*, **2017**, 119, 47004	1.6	4
15	Graphene-based terahertz metamirror with wavefront reconfiguration. *Optics Express*, **2021**, 29, 39574-39585	3.3	4
14	Terahertz Dynamic Beam Steering Based on Graphene Coding Metasurfaces. *IEEE Photonics Journal* , **2021**, 1-1	1.8	4
13	Ethanol-controlled peroxidation in liquid-anode discharges. *Journal Physics D: Applied Physics*, **2019**, 52, 425205	3	3
12	Experimental verification of free-space singular boundary conditions in an invisibility cloak. *Journal of Optics (United Kingdom)*, **2016**, 18, 044008	1.7	3

List of Publications

11	A high-performance broadband terahertz absorber based on multilayer graphene squares. *Physica Scripta*, **2021**, 96, 055504	2.6	3
10	Reflective and transmissive cross-polarization converter for terahertz wave in a switchable metamaterial. *Physica Scripta*, **2022**, 97, 015501	2.6	2
9	Achieving dual-band absorption and electromagnetically induced transparency in VO2 metamaterials. *Physica B: Condensed Matter*, **2022**, 624, 413391	2.8	2
8	Terahertz graphene modulator based on hybrid plasmonic waveguide. *Physica Scripta*, **2021**, 96, 125525	2.6	1
7	Optimized invisibility cloaks from the Logarithm conformal mapping. *Scientific Reports*, **2016**, 6, 38443	4.9	1
6	An efficient exact numerical solution for scattering by a circular cylinder. *IEEJ Transactions on Electrical and Electronic Engineering*, **2016**, 11, S3	1	1
5	Terahertz mode switching of spin reflection and vortex beams based on graphene metasurfaces. *Optics and Laser Technology*, **2022**, 153, 108278	4.2	1
4	VO2-Based Switchable Metasurface With Broadband Photonic Spin Hall Effect and Absorption. *IEEE Photonics Journal*, **2021**, 13, 1-5	1.8	0
3	Terahertz multiple beam steering using graphene Pancharatnam-Berry metasurfaces. *IEEE Photonics Journal*, **2022**, 1-1	1.8	0
2	Modeling and Design of a Plasmonic Sensor for High Sensing Performance and Clear Registration. *IEEE Photonics Journal*, **2016**, 8, 1-11	1.8	
1	Low-Loss Graphene Waveguide Modulator for Mid-Infrared Waves. *IEEE Photonics Journal*, **2021**, 13, 1-10	1.8	