

Burak Gerislioglu

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,266
citations

236925

25
h-index

233421

45
g-index

55
all docs

55
docs citations

55
times ranked

2164
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz plasmonics: The rise of toroidal metadevices towards immunobiosensings. <i>Materials Today</i> , 2020, 32, 108-130.	14.2	271
2	Functionalized terahertz plasmonic metasensors: Femtomolar-level detection of SARS-CoV-2 spike proteins. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112971.	10.1	203
3	Rapid Detection of Infectious Envelope Proteins by Magnetoplasmonic Toroidal Metasensors. <i>ACS Sensors</i> , 2017, 2, 1359-1368.	7.8	158
4	Extreme sensitive metasensor for targeted biomarkers identification using colloidal nanoparticles-integrated plasmonic unit cells. <i>Biomedical Optics Express</i> , 2018, 9, 373.	2.9	116
5	Gated graphene island-enabled tunable charge transfer plasmon terahertz metamodulator. <i>Nanoscale</i> , 2019, 11, 8091-8095.	5.6	109
6	Monolithic Metal Dimer-on-Film Structure: New Plasmonic Properties Introduced by the Underlying Metal. <i>Nano Letters</i> , 2020, 20, 2087-2093.	9.1	102
7	Toroidal Metaphotonics and Metadevices. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900326.	8.7	95
8	Toroidal Dipole-Enhanced Third Harmonic Generation of Deep Ultraviolet Light Using Plasmonic Meta-atoms. <i>Nano Letters</i> , 2019, 19, 605-611.	9.1	94
9	The role of Ge ₂ Sb ₂ Te ₅ in enhancing the performance of functional plasmonic devices. <i>Materials Today Physics</i> , 2020, 12, 100178.	6.0	82
10	Tunable plasmonic toroidal terahertz metamodulator. <i>Physical Review B</i> , 2018, 97, .	3.2	81
11	Transition from capacitive coupling to direct charge transfer in asymmetric terahertz plasmonic assemblies. <i>Optics Letters</i> , 2016, 41, 5333.	3.3	77
12	Photonic and Plasmonic Metasensors. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	62
13	Optical Switching Using Transition from Dipolar to Charge Transfer Plasmon Modes in Ge ₂ Sb ₂ Te ₅ Bridged Metallo-dielectric Dimers. <i>Scientific Reports</i> , 2017, 7, 42807.	3.3	57
14	Extracting the temperature distribution on a phase-change memory cell during crystallization. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	54
15	VO ₂ -Based Reconfigurable Antenna Platform with Addressable Microheater Matrix. <i>Advanced Electronic Materials</i> , 2017, 3, 1700170.	5.1	54
16	Controlled self-assembly of plasmon-based photonic nanocrystals for high performance photonic technologies. <i>Nano Today</i> , 2021, 37, 101072.	11.9	51
17	Attomolar Detection of Low-Molecular Weight Antibiotics Using Midinfrared-Resonant Toroidal Plasmonic Metachip Technology. <i>Physical Review Applied</i> , 2019, 12, .	3.8	48
18	Generation of magnetoelectric photocurrents using toroidal resonances: a new class of infrared plasmonic photodetectors. <i>Nanoscale</i> , 2019, 11, 13108-13116.	5.6	44

#	ARTICLE	IF	CITATIONS
19	Gated Graphene Enabled Tunable Charge-Current Configurations in Hybrid Plasmonic Metamaterials. ACS Applied Electronic Materials, 2019, 1, 637-641.	4.3	44
20	Active Control over the Interplay between the Dark and Hidden Sides of Plasmonics Using Metallodielectric Au-Ge ₂ Sb ₂ Te ₅ Unit Cells. Journal of Physical Chemistry C, 2017, 121, 19966-19974.	3.1	42
21	Electrically Driven Hot-Carrier Generation and Above-Threshold Light Emission in Plasmonic Tunnel Junctions. Nano Letters, 2020, 20, 6067-6075.	9.1	38
22	Directional Toroidal Dipoles Driven by Oblique Poloidal and Loop Current Flows in Plasmonic Meta-Atoms. Journal of Physical Chemistry C, 2018, 122, 24304-24308.	3.1	33
23	Sonochemical Synthesis of a Zinc Oxide Core-Shell Nanorod Radial p-n Homojunction Ultraviolet Photodetector. ACS Applied Materials & Interfaces, 2017, 9, 19791-19799.	8.0	29
24	Large-Modulation-Depth Polarization-Sensitive Plasmonic Toroidal Terahertz Metamaterial. IEEE Photonics Technology Letters, 2017, 29, 1860-1863.	2.5	28
25	Hybridized plasmons in graphene nanorings for extreme nonlinear optics. Optical Materials, 2017, 73, 729-735.	3.6	26
26	Demonstration of Robust Plexcitonic Coupling in Organic Molecules-Mediated Toroidal Meta-Atoms. Advanced Optical Materials, 2019, 7, 1901248.	7.3	25
27	Towards scalable plasmonic Fano-resonant metasurfaces for colorimetric sensing. Nanotechnology, 2022, 33, 405201.	2.6	25
28	Infrared plasmonic photodetectors: the emergence of high photon yield toroidal metadevices. Materials Today Chemistry, 2019, 14, 100206.	3.5	22
29	Deep- and vacuum-ultraviolet metaphotonic light sources. Materials Today, 2021, 51, 208-221.	14.2	22
30	Functional Charge Transfer Plasmon Metadevices. Research, 2020, 2020, 9468692.	5.7	21
31	Single- and Multimode Beam Propagation Through an Optothermally Controllable Fano Clusters-Mediated Waveguide. Journal of Lightwave Technology, 2017, 35, 4961-4966.	4.6	20
32	Tunable THz wave absorption by graphene-assisted plasmonic metasurfaces based on metallic split ring resonators. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	17
33	Functional Quadrumer Clusters for Switching Between Fano and Charge Transfer Plasmons. IEEE Photonics Technology Letters, 2017, 29, 2226-2229.	2.5	16
34	The Observation of High-Order Charge-Current Configurations in Plasmonic Meta-Atoms: A Numerical Approach. Photonics, 2019, 6, 43.	2.0	15
35	Optothermally controllable multiple high-order harmonics generation by Ge ₂ Sb ₂ Te ₅ -mediated Fano clusters. Optical Materials, 2018, 84, 301-306.	3.6	14
36	The Role of Electron Transfer in the Nonlinear Response of Ge ₂ Sb ₂ Te ₅ -Mediated Plasmonic Dimers. Photonics, 2019, 6, 52.	2.0	14

#	ARTICLE	IF	CITATIONS
37	Graphene Optical Switch Based on Charge Transfer Plasmons. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700285.	2.4	13
38	Excitation of Terahertz Charge Transfer Plasmons in Metallic Fractal Structures. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 992-1003.	2.2	10
39	Theoretical study of photoluminescence spectroscopy of strong exciton-polariton coupling in dielectric nanodisks with anapole states. Materials Today Chemistry, 2020, 16, 100254.	3.5	10
40	Azimuthally and radially excited charge transfer plasmon and Fano lineshapes in conductive sublayer-mediated nanoassemblies. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 2052.	1.5	7
41	Tunable plexciton dynamics in electrically biased nanojunctions. Journal of Applied Physics, 2020, 128, 063101.	2.5	4
42	The multi-windings forward structure battery balancing. , 2014, , .		3
43	Toroidal Metamaterials. Engineering Materials, 2021, , .	0.6	3
44	Advances in Plasmonics and Nanophotonics. Nanomaterials, 2021, 11, 3159.	4.1	3
45	Optothermally Controlled Charge Transfer Plasmons in Au-Ge ₂ Sb ₂ Te ₅ Core-Shell Dimers. Plasmonics, 2018, 13, 1921-1928.	3.4	2
46	Ultraviolet LED based compact and fast cortisol detector with ultra high sensitivity. , 2016, , .		1
47	Tunable terahertz response of plasmonic vee-shaped assemblies with a graphene monolayer. , 2016, , .		0
48	Optothermally Tuned Charge Transfer Plasmons in Au-Ge ₂ Sb ₂ Te ₅ Core-Shell Assemblies. MRS Advances, 2018, 3, 1919-1924.	0.9	0
49	Toroidal Metadevices. Engineering Materials, 2021, , 123-142.	0.6	0
50	Classical Electrodynamics. Engineering Materials, 2021, , 7-39.	0.6	0
51	Toroidal Excitations in Metamaterials. Engineering Materials, 2021, , 109-121.	0.6	0