Burak Gerislioglu

List of Publications by Year
in descending order

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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	Photonic and Plasmonic Metasensors. Laser and Photonics Reviews, 2022, 16, .	8.7	62
2	Towards scalable plasmonic Fano-resonant metasurfaces for colorimetric sensing. Nanotechnology, 2022, 33, 405201.	2.6	25
3	Toroidal Metamaterials. Engineering Materials, 2021, , .	0.6	3
4	Controlled self-assembly of plasmon-based photonic nanocrystals for high performance photonic technologies. Nano Today, 2021, 37, 101072.	11.9	51
5	Functionalized terahertz plasmonic metasensors: Femtomolar-level detection of SARS-CoV-2 spike proteins. Biosensors and Bioelectronics, 2021, 177, 112971.	10.1	203
6	Deep- and vacuum-ultraviolet metaphotonic light sources. Materials Today, 2021, 51, 208-221.	14.2	22
7	Toroidal Metadevices. Engineering Materials, 2021, , 123-142.	0.6	0
8	Classical Electrodynamics. Engineering Materials, 2021, , 7-39.	0.6	0
9	Toroidal Excitations in Metamaterials. Engineering Materials, 2021, , 109-121.	0.6	0
10	Advances in Plasmonics and Nanophotonics. Nanomaterials, 2021, 11, 3159.	4.1	3
11	Terahertz plasmonics: The rise of toroidal metadevices towards immunobiosensings. Materials Today, 2020, 32, 108-130.	14.2	271
12	Tunable plexciton dynamics in electrically biased nanojunctions. Journal of Applied Physics, 2020, 128, 063101.	2.5	4
13	Toroidal Metaphotonics and Metadevices. Laser and Photonics Reviews, 2020, 14, 1900326.	8.7	95
14	Electrically Driven Hot-Carrier Generation and Above-Threshold Light Emission in Plasmonic Tunnel Junctions. Nano Letters, 2020, 20, 6067-6075.	9.1	38
15	Monolithic Metal Dimer-on-Film Structure: New Plasmonic Properties Introduced by the Underlying Metal. Nano Letters, 2020, 20, 2087-2093.	9.1	102
16	The role of Ge2Sb2Te5 in enhancing the performance of functional plasmonic devices. Materials Today Physics, 2020, 12, 100178.	6.0	82
17	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
18	Functional Charge Transfer Plasmon Metadevices. Research, 2020, 2020, 9468692.	5.7	21

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19	Demonstration of Robust Plexcitonic Coupling in Organic Moleculesâ€Mediated Toroidal Metaâ€Atoms. Advanced Optical Materials, 2019, 7, 1901248.	7.3	25
20	Infrared plasmonic photodetectors: the emergence of high photon yield toroidal metadevices. Materials Today Chemistry, 2019, 14, 100206.	3.5	22
21	Attomolar Detection of Low-Molecular Weight Antibiotics Using Midinfrared-Resonant Toroidal Plasmonic Metachip Technology. Physical Review Applied, 2019, 12, .	3.8	48
22	The Role of Electron Transfer in the Nonlinear Response of Ge2Sb2Te5-Mediated Plasmonic Dimers. Photonics, 2019, 6, 52.	2.0	14
23	The Observation of High-Order Chargeâ€“Current Configurations in Plasmonic Meta-Atoms: A Numerical Approach. Photonics, 2019, 6, 43.	2.0	15
24	Generation of magnetoelectric photocurrents using toroidal resonances: a new class of infrared plasmonic photodetectors. Nanoscale, 2019, 11, 13108-13116.	5.6	44
25	Gated Graphene Enabled Tunable Chargeâ€“Current Configurations in Hybrid Plasmonic Metamaterials. ACS Applied Electronic Materials, 2019, 1, 637-641.	4.3	44
26	Gated graphene island-enabled tunable charge transfer plasmon terahertz metamodulator. Nanoscale, 2019, 11, 8091-8095.	5.6	109
27	Toroidal Dipole-Enhanced Third Harmonic Generation of Deep Ultraviolet Light Using Plasmonic Meta-atoms. Nano Letters, 2019, 19, 605-611.	9.1	94
28	Tunable plasmonic toroidal terahertz metamodulator. Physical Review B, 2018, 97, .	3.2	81
29	Optothermally Controlled Charge Transfer Plasmons in Au-Ge2Sb2Te5 Core-Shell Dimers. Plasmonics, 2018, 13, 1921-1928.	3.4	2
30	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
31	Optothermally Tuned Charge Transfer Plasmons in Au-Ge2Sb2Te5 Core-Shell Assemblies. MRS Advances, 2018, 3, 1919-1924.	0.9	0
32	Extreme sensitive metasensor for targeted biomarkers identification using colloidal nanoparticles-integrated plasmonic unit cells. Biomedical Optics Express, 2018, 9, 373.	2.9	116
33	Optothermally controllable multiple high-order harmonics generation by Ge2Sb2Te5-mediated Fano clusters. Optical Materials, 2018, 84, 301-306.	3.6	14
34	Optical Switching Using Transition from Dipolar to Charge Transfer Plasmon Modes in Ge2Sb2Te5 Bridged Metallodielectric Dimers. Scientific Reports, 2017, 7, 42807.	3.3	57
35	Sonochemical Synthesis of a Zinc Oxide Coreâ€“Shell Nanorod Radial pâ€“n Homojunction Ultraviolet Photodetector. ACS Applied Materials & Interfaces, 2017, 9, 19791-19799.	8.0	29
36	Excitation of Terahertz Charge Transfer Plasmons in Metallic Fractal Structures. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 992-1003.	2.2	10

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37	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
38	Hybridized plasmons in graphene nanorings for extreme nonlinear optics. Optical Materials, 2017, 73, 729-735.	3.6	26
39	Large-Modulation-Depth Polarization-Sensitive Plasmonic Toroidal Terahertz Metamaterial. IEEE Photonics Technology Letters, 2017, 29, 1860-1863.	2.5	28
40	Active Control over the Interplay between the Dark and Hidden Sides of Plasmonics Using Metallodielectric Auâ€“Ge₂Sb₂Te₅ Unit Cells. Journal of Physical Chemistry C, 2017, 121, 19966-19974.	3.1	42
41	Graphene Optical Switch Based on Charge Transfer Plasmons. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700285.	2.4	13
42	Rapid Detection of Infectious Envelope Proteins by Magnetoplasmonic Toroidal Metasensors. ACS Sensors, 2017, 2, 1359-1368.	7.8	158
43	VO₂â€Based Reconfigurable Antenna Platform with Addressable Microheater Matrix. Advanced Electronic Materials, 2017, 3, 1700170.	5.1	54
44	Functional Quadrumer Clusters for Switching Between Fano and Charge Transfer Plasmons. IEEE Photonics Technology Letters, 2017, 29, 2226-2229.	2.5	16
45	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
46	Single- and Multimode Beam Propagation Through an Optothermally Controllable Fano Clusters-Mediated Waveguide. Journal of Lightwave Technology, 2017, 35, 4961-4966.	4.6	20
47	Transition from capacitive coupling to direct charge transfer in asymmetric terahertz plasmonic assemblies. Optics Letters, 2016, 41, 5333.	3.3	77
48	Ultraviolet LED based compact and fast cortisol detector with ultra high sensitivity. , 2016, , .		1
49	Extracting the temperature distribution on a phase-change memory cell during crystallization. Journal of Applied Physics, 2016, 120, .	2.5	54
50	Tunable terahertz response of plasmonic vee-shaped assemblies with a graphene monolayer. , 2016, , .		0
51	The multi-windings forward structure battery balancing. , 2014, , .		3