

# Jogender Nagar

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

276  
citations

1039406

9  
h-index

1281420

11  
g-index

31  
all docs

31  
docs citations

31  
times ranked

161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical Formulation for Loop Antennas Valid from the RF to Optical Regime: A Review. , 2019, , .		0
2	Optimization of Far-Field Radiation From Impedance-Loaded Nanoloops Accelerated by an Exact Analytical Formulation. IEEE Transactions on Antennas and Propagation, 2019, 67, 1448-1458.	3.1	7
3	Design and Optimization of Radiation Pattern Reconfigurable Nanoloop Antennas. , 2018, , .		0
4	Efficient Multiobjective Antenna Optimization With Tolerance Analysis Through the Use of Surrogate Models. IEEE Transactions on Antennas and Propagation, 2018, 66, 6706-6715.	3.1	92
5	Multiobjective Optimization for Electromagnetics and Optics: An Introduction and Tutorial Based on Real-World Applications. IEEE Antennas and Propagation Magazine, 2018, 60, 58-71.	1.2	12
6	Three Color Correction with Metasurface-backed Gradient-Index Lenses. , 2018, , .		0
7	The adaptive wind driven optimization and its application in electromagnetics. , 2018, , .		3
8	Inverse design of engineered materials for extreme optical devices. , 2018, , .		4
9	A Comparison of Three Uniquely Different State of the Art and Two Classical Multiobjective Optimization Algorithms as Applied to Electromagnetics. IEEE Transactions on Antennas and Propagation, 2017, 65, 1267-1280.	3.1	24
10	Existence of Superdirective Radiation Modes in Thin-Wire Nanoloops. ACS Photonics, 2017, 4, 509-516.	3.2	9
11	Transformation electromagnetics enabled lens design with surrogate-assisted global optimization. , 2017, , .		0
12	Surrogate-assisted transformation optics inspired GRIN lens design and optimization. , 2017, , .		1
13	Efficient Wideband Numerical Simulations for Nanostructures Employing a Drude-Critical Points (DCP) Dispersive Model. Scientific Reports, 2017, 7, 2126.	1.6	3
14	Multiobjective Optimization-Aided Metamaterials-by-Design With Application to Highly Directive Nanodevices. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 147-158.	1.4	16
15	Closed-Form Expressions for the Radiation Properties of Nanoloops in the Terahertz, Infrared and Optical Regimes. IEEE Transactions on Antennas and Propagation, 2017, 65, 121-133.	3.1	22
16	Analytical Expressions for the Mutual Coupling of Loop Antennas Valid From the RF to Optical Regimes. IEEE Transactions on Antennas and Propagation, 2017, 65, 6889-6903.	3.1	9
17	Theoretical derivation of mutual coupling and radiation properties of loop antenna arrays valid from rf to optical. , 2017, , .		1
18	Extending the performance of quasiconformal lens transformations using geometrical optics principles. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Multi-objective analysis of multi-layered core-shell nanoparticles. , 2017, , .		0
20	Multi-objective tradeoff studies of directivity achievable by electrically small nanoloops. , 2017, , .		2
21	Multi-objective surrogate-assisted optimization applied to patch antenna design. , 2017, , .		29
22	SWaP tradeoffs in the solution space of a hybrid radial-axial achromatic GRIN singlet. , 2016, , .		0
23	A new GRIN lens design paradigm based on wavefront matching. , 2016, , .		1
24	Optical wavefront matching as a multi-frequency compliment to transformation optics. , 2016, , .		0
25	Surrogate model-assisted analysis of the performance of quasiconformal Transformation Optics-enabled flattened gradient-index lenses. , 2016, , .		0
26	On the use of surrogate models in the analytical decompositions of refractive index gradients obtained through quasiconformal transformation optics. Journal of Optics (United Kingdom), 2016, 18, 044019.	1.0	21
27	Analytical surrogate model for the aberrations of an arbitrary GRIN lens. Optics Express, 2016, 24, 17805.	1.7	12
28	Theoretical derivation of antenna parameters for thin-wire nanoloops. , 2016, , .		2
29	Analysis of thin-wire nanoloops as superdirective antennas. , 2016, , .		0
30	Theoretical derivation of the radiation parameters for thin-wire nanoloop antennas. , 2016, , .		1
31	Multi-objective optimization for GRIN lens design. , 2015, , .		5