

Nilesh Kumar Pathak

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

288
citations

933447

10
h-index

940533

16
g-index

30
all docs

30
docs citations

30
times ranked

298
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Perovskite Solar Cells Utilizing Au@SiO ₂ Core-Shell Nanoparticles. <i>Plasmonics</i> , 2017, 12, 237-244.	3.4	45
2	Tunable Properties of Surface Plasmon Resonances: The Influence of Core-Shell Thickness and Dielectric Environment. <i>Plasmonics</i> , 2014, 9, 651-657.	3.4	30
3	Study of Broadband Tunable Properties of Surface Plasmon Resonances of Noble Metal Nanoparticles Using Mie Scattering Theory: Plasmonic Perovskite Interaction. <i>Plasmonics</i> , 2016, 11, 713-719.	3.4	24
4	Study of efficiency enhancement in layered geometry of excitonic-plasmonic solar cell. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 1445-1450.	2.3	22
5	Tuning of the surface plasmon resonance of aluminum nanoshell near-infrared regimes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9441-9449.	2.8	22
6	Study of Light Extinction and Surface Plasmon Resonances of Metal Nanocluster: a Comparison Between Coated and Non-coated Nanogeometry. <i>Plasmonics</i> , 2015, 10, 1597-1606.	3.4	16
7	Numerical Simulation of Extinction Spectra of Plasmonically Coupled Nanospheres Using Discrete Dipole Approximation: Influence of Compositional Asymmetry. <i>Plasmonics</i> , 2016, 11, 1603-1612.	3.4	15
8	Numerical simulation of plasmonic light trapping in thin-film Si solar cells: surface coverage effect. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 275101.	2.8	14
9	Study of Surface Enhanced Raman Scattering of Single Molecule Adsorbed on the Surface of Metal Nanogeometries: Electrostatic Approach. <i>Plasmonics</i> , 2016, 11, 1343-1349.	3.4	12
10	Study of Surface Plasmon Resonances of Core-Shell Nanosphere: A Comparison between Numerical and Analytical Approach. <i>Plasmonics</i> , 2017, 12, 977-986.	3.4	11
11	Numerical Simulation of Broadband Scattering by Coated and Noncoated Metal Nanostructures Using Discrete Dipole Approximation Method. <i>Plasmonics</i> , 2016, 11, 425-432.	3.4	10
12	Electromagnetic study of surface enhanced Raman scattering of plasmonic-biomolecule: An interaction between nanodimer and single biomolecule. <i>Solid State Communications</i> , 2017, 255-256, 47-53.	1.9	8
13	Tunable Properties of Surface Plasmon Resonance of Metal Nanospheroid: Graphene Plasmon Interaction. <i>Plasmonics</i> , 2017, 12, 193-201.	3.4	7
14	Computational Study of Plasmon Interaction in Organic Media: a Comparison Between Analytical and Numerical Model for Dimer. <i>Plasmonics</i> , 2018, 13, 1775-1784.	3.4	6
15	Numerical Simulation of Electromagnetic Wave Interaction with Spheroidal Core-Shell Nanoparticle: Dependence of Surface Plasmon Resonance on Core-Shell Composition. <i>Plasmonics</i> , 2018, 13, 335-343.	3.4	6
16	Comparative study of thermoplasmonic effects of gold and silver metal nanoparticle. <i>AIP Advances</i> , 2021, 11, 045323.	1.3	6
17	Broadband Scattering With Strong Electric Field Coupling Between Metal Nanostructures Using DDA Simulation: Role of Different Organic Environments. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 940-951.	2.5	5
18	Study of external quantum efficiency of plasmonic coupled bilayer active device: influence of layer thickness and nanoparticle filling factor. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	4

#	ARTICLE	IF	CITATIONS
19	Resonant Broadband Field Enhancement in Cylindrical Plasmonic Structure Surrounded by Perovskite Environment. <i>Plasmonics</i> , 2017, 12, 1511-1522.	3.4	4
20	Study of Optical Cross Section of Anisotropic Core-Shell Nanostructure Inside a Perovskite Environment: the Influence of Gain Media. <i>Plasmonics</i> , 2019, 14, 63-70.	3.4	4
21	Plasmonic Perovskite Solar Cells Utilizing Noble Metal-Metal Oxide Hybrid Nanoparticles. , 2019, , 487-498.		4
22	Study of Surface-Enhanced Raman Scattering of Plasmonic Coupled Biomolecule: Role of Multi-Layered Nanosphere. <i>Plasmonics</i> , 2018, 13, 221-229.	3.4	3
23	Molecular aspects of oligomer-coupled ultra-small Au nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 140, 109378.	4.0	3
24	Study of surface plasmon resonance of core-shell nanogeometry under the influence of perovskite dielectric environment: Electrostatic approximation. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
25	Plasmonic Nanostructures for Energy Application. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	1.8	2
26	Application of exact solution of complex morse potential to investigate physical systems with complex and negative masses. <i>Journal of Physics Communications</i> , 2021, 5, 065006.	1.2	2
27	Study of thermoplasmonic properties of gold nanodimer in visible -infrared region of electromagnetic spectrum. <i>Nano Express</i> , 0, , .	2.4	1
28	Numerical simulation of metal subwavelength nanogeometries in organic media using DDA technique: a coupled broadband resonant near electric field perspective. <i>Journal of Optics (India)</i> , 2017, 46, 132-142.	1.7	0
29	Plasmonic Resonances and Their Application to Thin-Film Solar Cell. , 0, , .		0
30	A Perspective on Plasmonics within and beyond the Electrostatic Approximation. , 2018, , .		0