

Nilesh Kumar Pathak

List of Publications by Year in descending order

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papers

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citations

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all docs

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docs citations

30
times ranked

298
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative study of thermoplasmonic effects of gold and silver metal nanoparticle. AIP Advances, 2021, 11, 045323.	1.3	6
2	Application of exact solution of complex morse potential to investigate physical systems with complex and negative masses. Journal of Physics Communications, 2021, 5, 065006.	1.2	2
3	Molecular aspects of oligomer-coupled ultra-small Au nanoparticles. Journal of Physics and Chemistry of Solids, 2020, 140, 109378.	4.0	3
4	Plasmonic Nanostructures for Energy Application. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	2
5	Study of Optical Cross Section of Anisotropic Core-Shell Nanostructure Inside a Perovskite Environment: the Influence of Gain Media. Plasmonics, 2019, 14, 63-70.	3.4	4
6	Plasmonic Perovskite Solar Cells Utilizing Noble Metal-Metal Oxide Hybrid Nanoparticles. , 2019, , 487-498.		4
7	Tuning of the surface plasmon resonance of aluminum nanoshell near-infrared regimes. Physical Chemistry Chemical Physics, 2019, 21, 9441-9449.	2.8	22
8	Computational Study of Plasmon Interaction in Organic Media: a Comparison Between Analytical and Numerical Model for Dimer. Plasmonics, 2018, 13, 1775-1784.	3.4	6
9	Study of Surface-Enhanced Raman Scattering of Plasmonic Coupled Biomolecule: Role of Multi-Layered Nanosphere. Plasmonics, 2018, 13, 221-229.	3.4	3
10	Numerical Simulation of Electromagnetic Wave Interaction with Spheroidal Core-Shell Nanoparticle: Dependence of Surface Plasmon Resonance on Core-Shell Composition. Plasmonics, 2018, 13, 335-343.	3.4	6
11	A Perspective on Plasmonics within and beyond the Electrostatic Approximation. , 2018, , .		0
12	Tunable Properties of Surface Plasmon Resonance of Metal Nanospheroid: Graphene Plasmon Interaction. Plasmonics, 2017, 12, 193-201.	3.4	7
13	Plasmonic Perovskite Solar Cells Utilizing Au@SiO ₂ Core-Shell Nanoparticles. Plasmonics, 2017, 12, 237-244.	3.4	45
14	Resonant Broadband Field Enhancement in Cylindrical Plasmonic Structure Surrounded by Perovskite Environment. Plasmonics, 2017, 12, 1511-1522.	3.4	4
15	Numerical simulation of metal subwavelength nanogeometries in organic media using DDA technique: a coupled broadband resonant near electric field perspective. Journal of Optics (India), 2017, 46, 132-142.	1.7	0
16	Electromagnetic study of surface enhanced Raman scattering of plasmonic-biomolecule: An interaction between nanodimer and single biomolecule. Solid State Communications, 2017, 255-256, 47-53.	1.9	8
17	Study of Surface Plasmon Resonances of Core-Shell Nanosphere: A Comparison between Numerical and Analytical Approach. Plasmonics, 2017, 12, 977-986.	3.4	11
18	Study of surface plasmon resonance of core-shell nanogeometry under the influence of perovskite dielectric environment: Electrostatic approximation. AIP Conference Proceedings, 2016, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Study of Surface Enhanced Raman Scattering of Single Molecule Adsorbed on the Surface of Metal Nanogeometries: Electrostatic Approach. Plasmonics, 2016, 11, 1343-1349.	3.4	12
20	Numerical Simulation of Extinction Spectra of Plasmonically Coupled Nanospheres Using Discrete Dipole Approximation: Influence of Compositional Asymmetry. Plasmonics, 2016, 11, 1603-1612.	3.4	15
21	Study of external quantum efficiency of plasmonic coupled bilayer active device: influence of layer thickness and nanoparticle filling factor. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	4
22	Broadband Scattering With Strong Electric Field Coupling Between Metal Nanostructures Using DDA Simulation: Role of Different Organic Environments. IEEE Journal of Photovoltaics, 2016, 6, 940-951.	2.5	5
23	Study of Broadband Tunable Properties of Surface Plasmon Resonances of Noble Metal Nanoparticles Using Mie Scattering Theory: Plasmonic Perovskite Interaction. Plasmonics, 2016, 11, 713-719.	3.4	24
24	Numerical Simulation of Broadband Scattering by Coated and Noncoated Metal Nanostructures Using Discrete Dipole Approximation Method. Plasmonics, 2016, 11, 425-432.	3.4	10
25	Study of Light Extinction and Surface Plasmon Resonances of Metal Nanocluster: a Comparison Between Coated and Non-coated Nanogeometry. Plasmonics, 2015, 10, 1597-1606.	3.4	16
26	Numerical simulation of plasmonic light trapping in thin-film Si solar cells: surface coverage effect. Journal Physics D: Applied Physics, 2015, 48, 275101.	2.8	14
27	Study of efficiency enhancement in layered geometry of excitonic-plasmonic solar cell. Applied Physics A: Materials Science and Processing, 2014, 115, 1445-1450.	2.3	22
28	Tunable Properties of Surface Plasmon Resonances: The Influence of Core-Shell Thickness and Dielectric Environment. Plasmonics, 2014, 9, 651-657.	3.4	30
29	Plasmonic Resonances and Their Application to Thin-Film Solar Cell. , 0, , .		0
30	Study of thermoplasmonic properties of gold nanodimer in visible -infrared region of electromagnetic spectrum. Nano Express, 0, , .	2.4	1