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Nonlinear Optical Properties of Materials

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#	Paper	IF	Citations
32	Third harmonic generation in air ambient and laser ablated carbon plasma. <i>Physics of Plasmas</i> , 2015 , 22, 123302	2.1	9
31	Calculation of the dynamic first electronic hyperpolarizability $\chi^{(1)}$, $\chi^{(2)}$ of periodic systems. Theory, validation, and application to multi-layer MoS ₂ . <i>Journal of Chemical Physics</i> , 2015 , 143, 244102	3.9	15
30	Nonlinear absorption tuning by composition control in bimetallic plasmonic nanoprism arrays. <i>Nanoscale</i> , 2015 , 7, 12411-8	7.7	27
29	Au-Ag nanoalloy molecule-like clusters for enhanced quantum efficiency emission of Er ³⁺ ions in silica. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28262-9	3.6	26
28	Why plasma harmonics?. <i>Quantum Electronics</i> , 2015 , 45, 785-796	1.8	3
27	Amplified sensitization of Er ³⁺ luminescence in silica by AuN quantum clusters upon annealing in a reducing atmosphere. <i>RSC Advances</i> , 2016 , 6, 99376-99384	3.7	8
26	Spatio-temporal optimization of a laser produced Al-plasma: Generation of highly ionized species. <i>Physics of Plasmas</i> , 2016 , 23, 113104	2.1	5
25	Wavelength- and polarization-dependent nonlinear optical properties of plasmonic nanoprism arrays. 2016 ,		
24	HHG in Short-Length Plasmas. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2016 , 9-50	0.4	
23	Z-scan studies and optical limiting in a new organic-polymer composite film. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	7
22	Dichroic nonlinear absorption response of silver nanoprism arrays. <i>RSC Advances</i> , 2017 , 7, 17741-17747	3.7	18
21	Spectral dependence of nonlinear absorption in ordered silver metallic nanoprism arrays. <i>Scientific Reports</i> , 2017 , 7, 5307	4.9	20
20	High-order optical nonlinearities in plasmonic nanocomposites—review. <i>Advances in Optics and Photonics</i> , 2017 , 9, 720	16.7	54
19	Nonlinear Absorption Applications of CH ₃ NH ₃ PbBr ₃ Perovskite Crystals. <i>Advanced Functional Materials</i> , 2018 , 28, 1707175	15.6	63
18	Nonlinear Refraction and Absorption of Ag ₂₉ Nanoclusters: Evidence for Two-Photon Absorption Saturation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18682-18689	3.8	14
17	Quantum chemical studies on synthesis, characterization and third order nonlinear optical properties of (E)-2-(benzo[d][1,3]dioxol-5-ylmethylene)hydrazinecarboxamide single crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 11931-11944	2.1	5
16	Synthesis, experimental and computational spectroscopic investigations of third-order nonlinear optical material (E)-N ² -(benzo[d][1,3]dioxol-5-ylmethylene)benzohydrazide. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 395102	3	4

15	Preparation and optoelectronic studies of the organic compound [2-(2,3-dimethyl phenylamino)-N-Phenyl benzamide doped(PMMA)]. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10284-10292	2.1	6
14	Growth, structural and optical limiting property of a new third order nonlinear optical material: piperazinium bis (2-carboxypyridine) monohydrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 9471-9488	2.1	8
13	Ultrafast Nonlinear Optical Characteristics of Pyrene-Conjugated Azaphthalocyanines with Optical Limiting Behavior. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21740-21750	3.8	7
12	Pump-Probe Technique to Study of the All-Optical Switching Properties of Copper Phthalocyanine Thin Film prepared via Pulsed laser deposition. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 928, 072002	0.4	0
11	Observation and Analysis of Incoherent Second-Harmonic Generation in Gold Nanoclusters with Six Atoms. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15440-15447	3.8	5
10	Structural and Optical Coefficients Investigation of α -Al ₂ O ₃ Nanoparticles using Kramers-Kronig Relations and Zécan Technique. <i>Journal of Asian Ceramic Societies</i> , 2021 , 9, 366-373	2.4	3
9	Mechanochemical synthesis, linear and nonlinear optical properties of a new oligophenyleneimine with indole terminal moiety for optoelectronic application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 6283-6295	2.1	1
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6	Why Plasma Harmonics?. 2014 ,		
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