

Shivaraj R Maidur

List of Publications by Year in descending order

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47
papers

1,315
citations

361388

20
h-index

361001

35
g-index

47
all docs

47
docs citations

47
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and computational studies on second-and third-order nonlinear optical properties of a novel D- π -A type chalcone derivative: 3-(4-methoxyphenyl)-1-(4-nitrophenyl) prop-2-en-1-one. Optics and Laser Technology, 2017, 97, 219-228.	4.6	110
2	Structural characterizations, Hirshfeld surface analyses, and third-order nonlinear optical properties of two novel chalcone derivatives. Optical Materials, 2018, 75, 580-594.	3.6	85
3	Influence of Dy doping on key linear, nonlinear and optical limiting characteristics of SnO ₂ films for optoelectronic and laser applications. Optics and Laser Technology, 2018, 108, 609-618.	4.6	84
4	Structural, third-order optical nonlinearities and figures of merit of (E)-1-(3-substituted) Tj ETQqO O O rgBT /Overlock 10 Tf 50 627 Td (p limiting applications. Dyes and Pigments, 2017, 139, 720-729.	3.7	76
5	Crystalline perfection, third-order nonlinear optical properties and optical limiting studies of 3, 4-Dimethoxy -4 π^2 -methoxychalcone single crystal. Optics and Laser Technology, 2016, 81, 70-76.	4.6	74
6	Molecular structure, second- and third-order nonlinear optical properties and DFT studies of a novel non-centrosymmetric chalcone derivative: (2E)-3-(4-fluorophenyl)-1-(4-[[[(1E)-(4-fluorophenyl)methylene]amino]phenyl]prop-2-en-1-one. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 184, 342-354.	3.9	74
7	Structure and nonlinear optical properties of (E)-1-(4-aminophenyl)-3-(3-chlorophenyl) prop-2-en-1-one: A promising new D- π -A- π -D type chalcone derivative crystal for nonlinear optical devices. Journal of Molecular Structure, 2017, 1129, 239-247.	3.6	68
8	The role of cobalt doping in tuning the band gap, surface morphology and third-order optical nonlinearities of ZnO nanostructures for NLO device applications. RSC Advances, 2019, 9, 22302-22312.	3.6	59
9	Investigation on structural, linear, nonlinear and optical limiting properties of sol-gel derived nanocrystalline Mg doped ZnO thin films for optoelectronic applications. Journal of Molecular Structure, 2018, 1173, 375-384.	3.6	58
10	Effect of Aluminium doping on photoluminescence and third-order nonlinear optical properties of nanostructured CdS thin films for photonic device applications. Physica B: Condensed Matter, 2019, 555, 145-151.	2.7	52
11	Z-scan studies of third-order nonlinear optical and optical limiting properties of chalcones doped Poly(methyl methacrylate) thin films for visible laser protection. Optical Materials, 2018, 84, 28-37.	3.6	45
12	Linear optical and third-order nonlinear optical properties of anthracene chalcone derivatives doped PMMA thin films. Optik, 2019, 190, 54-67.	2.9	45
13	Key functions analysis of a novel nonlinear optical D- π -A bridge type (2E)-3-(4-Methylphenyl)-1-(3-nitrophenyl) prop-2-en-1-one chalcone: An experimental and theoretical approach. Optical Materials, 2017, 72, 427-435.	3.6	44
14	Defects-induced nonlinear saturable absorption mechanism in europium-doped ZnO nanoparticles synthesized by facile hydrothermal method. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	40
15	Crystal growth and characterization of second- and third-order nonlinear optical chalcone derivative: (2 <i>E</i>)-3-(5-bromo-2-thienyl)-1-(4-nitrophenyl)prop-2-en-1-one. Journal of Applied Crystallography, 2018, 51, 1035-1042.	4.5	28
16	Crystal structure, spectroscopic analyses, linear and third-order nonlinear optical properties of anthracene-based chalcone derivative for visible laser protection. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	28
17	Continuous wave laser induced nonlinear optical response of nitrogen doped graphene oxide. Optik, 2019, 178, 384-393.	2.9	28
18	Nonlinear optical and optical power limiting studies of Zn _{1-x} Mn _x O thin films prepared by spray pyrolysis. Optik, 2019, 182, 671-681.	2.9	27

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19	The structural and third-order nonlinear optical studies of a novel nitro group-substituted chalcone derivative for nonlinear optical applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	22
20	Thermally induced optical nonlinearity and optical power limiting action of 2,4,5-trimethoxy-4-nitrochalcone under CW laser regime. Journal of Nonlinear Optical Physics and Materials, 2018, 27, 1850012.	1.8	21
21	Crystal structure, Hirshfeld and third-order nonlinear optical properties of applications. Optical Materials, 2018, 86, 138-147.	3.6	21
22	Linear, third order nonlinear and optical limiting studies on MZO/FTO thin film system fabricated by spin coating technique for electro-optic applications. Journal of Materials Research, 2018, 33, 3880-3889.	2.6	21
23	Structural and femtosecond third-order nonlinear optical properties of electron donor π -acceptor substituted chalcones: An experimental and computational approach. Journal of Molecular Structure, 2020, 1219, 128523.	3.6	19
24	Structure-property relation and third-order nonlinear optical studies of two new halogenated chalcones. Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 349-360.	0.8	17
25	Influence of solution molarity on structure, surface morphology, non-linear optical and electric properties of CdO thin films prepared by spray pyrolysis technique. Materials Research Express, 2019, 6, 106447.	1.6	17
26	Ultrafast Nonlinear Optical and Structure-Property Relationship Studies of Pyridine-Based Anthracene Chalcones Using Z-Scan, Degenerate Four-Wave Mixing, and Computational Approaches. Journal of Physical Chemistry B, 2021, 125, 3883-3898.	2.6	16
27	Enhanced optical nonlinearity in sprayed Mn doped ZnS thin films. Chemical Physics Letters, 2020, 750, 137457.	2.6	15
28	Role of copper dopant in two-photon absorption and nonlinear optical properties of sprayed ZnS thin films for optical limiting applications. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 398, 127276.	2.1	12
29	Photophysical, Electrochemical Studies of Novel Pyrazolo[4,3-d]hydroquinazolin-1-ones and Their Anticancer Activity. ChemistrySelect, 2017, 2, 6882-6890.	1.5	11
30	Fluorescence and third-order nonlinear optical properties of thermally stable CBPEA dye-doped PMMA/ZnO nanocomposites. Journal of Materials Science: Materials in Electronics, 2020, 31, 10531-10547.	2.2	11
31	Structure-Property Relationship of Three 2-Chloro-4-fluoro Chalcone Derivatives: A Comprehensive Study on Linear and Non-linear Optical Properties, Structural Characterizations and Density Functional Theory. Journal of Molecular Structure, 2022, 1267, 133584.	3.6	10
32	Thermo-optic effects mediated self focusing mechanism and optical power limiting studies of ZnO thin films deposited on ITO coated PET substrates by RF magnetron sputtering under continuous wave laser regime. Optik, 2021, 225, 165835.	2.9	9
33	Crystal structure, synthesis, growth and characterization of a non-linear chalcone crystal: (2E)-1-(4-chlorophenyl)-3-(4-diethylaminophenyl)-prop-2-en-1-one. Journal of Molecular Structure, 2021, 1246, 131184.	3.6	9
34	Donor- π -Acceptor-Donor class of 2,5-dibenzylidenecyclopentan-1-one analogues as efficient third order nonlinear optical and photoluminescent materials π -An experimental investigation. Optics and Laser Technology, 2019, 117, 304-315.	4.6	8
35	Highly c-axis oriented crystal growth induced giant unusual saturable absorption behavior in wet chemically grown ZnO thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 107, 47-53.	2.7	8
36	Sprayed nanocrystalline ZMS thin films for nonlinear optical device applications. Optical Materials, 2019, 96, 109304.	3.6	7

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37	Impact of brilliant green dye on structural, linear, and third-order nonlinear optical properties of poly(vinyl alcohol) polymer composites for optoelectronic applications. Journal of Materials Research, 2021, 36, 2856-2871.	2.6	6
38	Nonlinear reverse saturation absorption, self-defocusing behavior and structure-property relationship of a novel 2,3,4-trimethoxy-4'-nitrochalcone single crystal. Journal of Molecular Structure, 2019, 1193, 177-184.	3.6	5
39	Third-order NLO properties and power limiting behavior of (E)-3-(4-fluorophenyl)-1-(4-methoxyphenyl)prop-2-en-1-one under CW laser excitation. Materials Today: Proceedings, 2020, 23, 359-365.	1.8	5
40	Influence of structure and surface morphology on optical limiting property of spray pyrolyzed ZCO thin films. Chemical Physics Letters, 2020, 759, 137975.	2.6	4
41	Linear and nonlinear optical investigations of ZnO nanoparticles for optoelectronic applications. AIP Conference Proceedings, 2020, , .	0.4	4
42	Novel nitro based chalcone derivative single crystals: characterization on structural, linear optical, thermal, and third-order nonlinear optical properties. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	3
43	phenyl]-1-(4methylphenyl)penta-2,4-dien-1-one crystal for second and third order nonlinear applications. Journal of Chemical Sciences, 2020, 132, 1.	1.5	3
44	Third order nonlinear optical properties of graphene quantum dots under continuous wavelength regime at 532â€...nm. AIP Conference Proceedings, 2018, , .	0.4	2
45	Third-order nonlinear optical properties of three chlorinated thienyl chalcones derivatives: synthesis, structural determination and Hirshfeld surface analysis. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 685-696.	0.8	2
46	Third-order nonlinear optical properties of 1,3-bis(3,4-dimethoxyphenyl) prop-2-en-1-one under femtosecond laser pulses. AIP Conference Proceedings, 2018, , .	0.4	1
47	Evolution of physicochemical properties of 2-(2-(4-(4-chloro) phenyl) vinyl)-1, 1, 3-trimethyl-1H-benzo[e] Indolium iodide via experimental and quantum chemical calculation for third-harmonic generation applications. Journal of Molecular Structure, 2022, 1268, 133557.	3.6	1