

# S Venugopal Rao

## List of Publications by Year in descending order

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332  
papers

8,590  
citations

41344

49  
h-index

79698

73  
g-index

338  
all docs

338  
docs citations

338  
times ranked

5974  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis of Silver Nanoparticles Using <i>Coriandrum Sativum</i> Leaf Extract and Their Application in Nonlinear Optics. <i>Advanced Science Letters</i> , 2010, 3, 138-143.	0.2	379
2	Saturable and reverse saturable absorption of Rhodamine B in methanol and water. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 2470.	2.1	168
3	Femtosecond and nanosecond nonlinear optical properties of alkyl phthalocyanines studied using Z-scan technique. <i>Chemical Physics Letters</i> , 2007, 447, 274-278.	2.6	167
4	Nonlinear optical and optical limiting properties of phthalocyanines in solution and thin films of PMMA at 633Ånm studied using a cw laser. <i>Materials Letters</i> , 2007, 61, 4426-4431.	2.6	158
5	Large third-order optical nonlinearity and optical limiting in symmetric and unsymmetrical phthalocyanines studied using Z-scan. <i>Optics Communications</i> , 2007, 280, 206-212.	2.1	137
6	Flexible SERS substrates for hazardous materials detection: recent advances. <i>Opto-Electronic Advances</i> , 2021, 4, 210048-210048.	13.3	134
7	Studies of third-order optical nonlinearity and nonlinear absorption in tetra tolyl porphyrins using degenerate four wave mixing and Z-scan. <i>Optics Communications</i> , 2000, 182, 255-264.	2.1	121
8	Laser-induced breakdown spectroscopy-based investigation and classification of pharmaceutical tablets using multivariate chemometric analysis. <i>Talanta</i> , 2011, 87, 53-59.	5.5	112
9	Experimental and computational studies on second-and third-order nonlinear optical properties of a novel D- $\pi$ -A type chalcone derivative: 3-(4-methoxyphenyl)-1-(4-nitrophenyl) prop-2-en-1-one. <i>Optics and Laser Technology</i> , 2017, 97, 219-228.	4.6	110
10	Dispersion studies of non-linear absorption in C60 using Z-scan. <i>Chemical Physics Letters</i> , 1998, 297, 491-498.	2.6	107
11	Linear and nonlinear optical properties of gold nanoparticles doped borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 482, 160-169.	3.1	105
12	Study on third-order nonlinear optical properties of 4-methylsulfanyl chalcone derivatives using picosecond pulses. <i>Materials Research Bulletin</i> , 2012, 47, 3552-3557.	5.2	102
13	Ag/Au Nanoparticle-Loaded Paper-Based Versatile Surface-Enhanced Raman Spectroscopy Substrates for Multiple Explosives Detection. <i>ACS Omega</i> , 2018, 3, 8190-8201.	3.5	100
14	Dinaphthoporphyenes: Synthesis and Nonlinear Optical Studies. <i>Organic Letters</i> , 2011, 13, 188-191.	4.6	99
15	Ultrafast Laser Ablation in Liquids for Nanomaterials and Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1364-1388.	0.9	92
16	Femtosecond nonlinear optical properties of alkoxy phthalocyanines at 800nm studied using Z-Scan technique. <i>Chemical Physics Letters</i> , 2008, 464, 211-215.	2.6	87
17	New, High Efficiency Nonlinear Optical Chalcone Co-Crystal and Structure-Property Relationship. <i>Crystal Growth and Design</i> , 2011, 11, 5362-5369.	3.0	86
18	Nonlinear optical and optical limiting studies of alkoxy phthalocyanines in solutions studied at 532Ånm with nanosecond pulse excitation. <i>Applied Physics B: Lasers and Optics</i> , 2008, 91, 149-156.	2.2	85

#	ARTICLE	IF	CITATIONS
19	Synthesis, growth, structural, thermal, linear and nonlinear optical properties of a new organic crystal: Dimethylammonium picrate. <i>Journal of Crystal Growth</i> , 2010, 312, 1957-1962.	1.5	83
20	Nonlinear absorption and excited state dynamics in Rhodamine B studied using Z-scan and degenerate four wave mixing techniques. <i>Chemical Physics Letters</i> , 2002, 361, 439-445.	2.6	82
21	Hand-Held Femtogram Detection of Hazardous Picric Acid with Hydrophobic Ag Nanopillar SERS Substrates and Mechanism of Elasto-Capillarity. <i>ACS Sensors</i> , 2017, 2, 198-202.	7.8	81
22	Optical, structural and Near-IR NLO properties of gold nanoparticles doped sodium zinc borate glasses. <i>Optical Materials</i> , 2018, 83, 34-42.	3.6	77
23	Synthesis, crystal growth, structure and characterization of a novel third order nonlinear optical organic single crystal: 2-Amino 4,6-Dimethyl Pyrimidine 4-nitrophenol. <i>Optical Materials</i> , 2018, 84, 475-489.	3.6	75
24	Explosives sensing using Ag-Cu alloy nanoparticles synthesized by femtosecond laser ablation and irradiation. <i>RSC Advances</i> , 2019, 9, 1517-1525.	3.6	75
25	Crystalline perfection, third-order nonlinear optical properties and optical limiting studies of 3,4-Dimethoxy-4'-methoxychalcone single crystal. <i>Optics and Laser Technology</i> , 2016, 81, 70-76.	4.6	74
26	Ultrafast nonlinear optical properties of alkyl-phthalocyanine nanoparticles investigated using Z-scan technique. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	71
27	Synthesis, Optical, Electrochemical, DFT Studies, NLO Properties, and Ultrafast Excited State Dynamics of Carbazole-Induced Phthalocyanine Derivatives. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11118-11133.	3.1	70
28	Structural and Femtosecond Third-Order Nonlinear Optical Properties of Sodium Borate Oxide Glasses: Effect of Antimony. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5591-5602.	3.1	68
29	Two-photon and three-photon absorption in dinaphthoporphyrenes. <i>Chemical Physics Letters</i> , 2011, 514, 98-103.	2.6	66
30	Broadband ultrafast nonlinear optical studies revealing exciting multi-photon absorption coefficients in phase pure zero-dimensional Cs <sub>4</sub> PbBr <sub>6</sub> perovskite films. <i>Nanoscale</i> , 2019, 11, 945-954.	5.6	65
31	Trace-Level Detection of Secondary Explosives Using Hybrid Silver-Gold Nanoparticles and Nanostructures Achieved with Femtosecond Laser Ablation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16972-16983.	3.1	64
32	Broadband femtosecond nonlinear optical properties of CsPbBr <sub>3</sub> perovskite nanocrystals. <i>Optics Letters</i> , 2018, 43, 603.	3.3	64
33	Sterically demanding zinc phthalocyanines: synthesis, optical, electrochemical, nonlinear optical, excited state dynamics studies. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1711-1722.	5.5	63
34	Influence of gold nanoparticles on the nonlinear optical and photoluminescence properties of Eu <sub>2</sub> O <sub>3</sub> doped alkali borate glasses. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2019-2032.	2.8	63
35	Improved third-order optical nonlinearity and optical limiting behaviour of (nanospindle and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf excitation. <i>RSC Advances</i> , 2016, 6, 91083-91092.	3.6	60
36	Second-harmonic generation through optimized modal phase matching in semiconductor waveguides. <i>Applied Physics Letters</i> , 2003, 83, 620-622.	3.3	59

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37	Ultrafast Excited-State Dynamics and Dispersion Studies of Third-Order Optical Nonlinearities in Novel Corroles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17828-17837.	3.1	59
38	Femtosecond Laser Fabricated Ag@Au and Cu@Au Alloy Nanoparticles for Surface Enhanced Raman Spectroscopy Based Trace Explosives Detection. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	59
39	Fabrication and characterization of aluminum nanostructures and nanoparticles obtained using femtosecond ablation technique. <i>Chemical Physics Letters</i> , 2012, 530, 93-97.	2.6	58
40	Instantaneous trace detection of nitro-explosives and mixtures with nanotextured silicon decorated with Ag@Au alloy nanoparticles using the SERS technique. <i>Analytica Chimica Acta</i> , 2020, 1101, 157-168.	5.4	58
41	Wavelength dependent studies of nonlinear absorption in zinc meso-tetra(p-methoxyphenyl)tetrabenzoporphyrin (Znmp TBP) using Z-scan technique. <i>Journal of Porphyrins and Phthalocyanines</i> , 2001, 05, 549-554.	0.8	57
42	Versatile gold based SERS substrates fabricated by ultrafast laser ablation for sensing picric acid and ammonium nitrate. <i>Chemical Physics Letters</i> , 2017, 685, 103-107.	2.6	56
43	Femtosecond and nanosecond laser induced breakdown spectroscopic studies of NTO, HMX, and RDX. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 79-80, 31-38.	2.9	55
44	Cost effective nanostructured copper substrates prepared with ultrafast laser pulses for explosives detection using surface enhanced Raman scattering. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	55
45	Correlation of molecular, atomic emissions with detonation parameters in femtosecond and nanosecond LIBS plasma of high energy materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1535-1546.	3.0	54
46	Femtosecond laser induced breakdown spectroscopy based standoff detection of explosives and discrimination using principal component analysis. <i>Optics Express</i> , 2018, 26, 8069.	3.4	54
47	SERS based detection of multiple analytes from dye/explosive mixtures using picosecond laser fabricated gold nanoparticles and nanostructures. <i>Analyst, The</i> , 2019, 144, 2327-2336.	3.5	54
48	Femtosecond Ablation of Silicon in Acetone: Tunable Photoluminescence from Generated Nanoparticles and Fabrication of Surface Nanostructures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7139-7151.	3.1	53
49	Molecular formation dynamics of 5-nitro-2,4-dihydro-3H-1,2,4-triazol-3-one, 1,3,5-trinitroperhydro-1,3,5-triazine, and 2,4,6-trinitrotoluene in air, nitrogen, and argon atmospheres studied using femtosecond laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 121-129.	2.9	52
50	Fabrication of buried channel waveguides in photosensitive glass using proton beam writing. <i>Applied Physics Letters</i> , 2006, 88, 171106.	3.3	50
51	Picosecond and femtosecond optical nonlinearities of novel corroles. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 140-148.	0.8	50
52	Deciphering the Ultrafast Nonlinear Optical Properties and Dynamics of Pristine and Ni-Doped CsPbBr <sub>3</sub> Colloidal Two-Dimensional Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5577-5584.	4.6	50
53	Femtosecond and nanosecond LIBS studies of nitroimidazoles: correlation between molecular structure and LIBS data. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 737-750.	3.0	48
54	Nonlinear optical studies of sodium borate glasses embedded with gold nanoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	48

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55	Structural, optical and electrical characteristics of a new NLO crystal. Optics and Laser Technology, 2012, 44, 1689-1697.	4.6	47
56	Silver nano-entities through ultrafast double ablation in aqueous media for surface enhanced Raman scattering and photonics applications. Journal of Applied Physics, 2013, 113, .	2.5	47
57	Picosecond nonlinear optical studies of unsymmetrical alkyl and alkoxy phthalocyanines. Materials Letters, 2010, 64, 1915-1917.	2.6	46
58	Femtosecond Laser-Induced, Nanoparticle-Embedded Periodic Surface Structures on Crystalline Silicon for Reproducible and Multi-utility SERS Platforms. ACS Omega, 2018, 3, 18420-18432.	3.5	46
59	Wavelength-Dependent Nonlinear Optical Absorption and Broadband Optical Limiting in Au-Fe <sub>2</sub> O <sub>3</sub> -rGO Nanocomposites. ACS Applied Nano Materials, 2018, 1, 6337-6348.	5.0	46
60	Ultrafast nonlinear optical properties of alkyl phthalocyanines investigated using degenerate four-wave mixing technique. Optical Materials, 2009, 31, 1042-1047.	3.6	45
61	Effect of Eu <sup>3+</sup> in tuning the ultrafast third-order optical nonlinearity in heavy metal borate glasses. Optical Materials, 2020, 108, 110051.	3.6	45
62	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
63	A progress review of proton beam writing applications in microphotonics. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 364-371.	1.4	43
64	Ultrafast excited state dynamics and dispersion studies of nonlinear optical properties in dinaphthoporphyrcenes. Applied Physics Letters, 2012, 100, 141109.	3.3	43
65	Excited state dynamics in tetra tolyl porphyrins studied using degenerate four wave mixing with incoherent light and ps pulses. Optics Communications, 2001, 192, 123-133.	2.1	42
66	Nonlinear frequency conversion in semiconductor optical waveguides using birefringent, modal and quasi-phase-matching techniques. Journal of Optics, 2004, 6, 569-584.	1.5	42
67	Femtosecond, broadband nonlinear optical studies of a zinc porphyrin and zinc phthalocyanine. Optics and Laser Technology, 2018, 108, 418-425.	4.6	42
68	Large three-photon absorption in Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> films studied using Z-scan technique. Applied Physics Letters, 2010, 96, 232905.	3.3	41
69	Ultra-sensitive reusable SERS sensor for multiple hazardous materials detection on single platform. Journal of Hazardous Materials, 2021, 407, 124353.	12.4	41
70	Efficient second-harmonic generation in birefringently phase-matched GaAs/Al <sub>2</sub> O <sub>3</sub> waveguides. Optics Letters, 2001, 26, 1785.	3.3	40
71	Picosecond optical nonlinearities in symmetrical and unsymmetrical phthalocyanines studied using the Z-scan technique. Pramana - Journal of Physics, 2010, 75, 1017-1023.	1.8	40
72	Fabrication and optical characterization of microstructures in poly(methylmethacrylate) and poly(dimethylsiloxane) using femtosecond pulses for photonic and microfluidic applications. Applied Optics, 2010, 49, 2475.	2.1	40

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73	Effect of oblique incidence on silver nanomaterials fabricated in water via ultrafast laser ablation for photonics and explosives detection. <i>Applied Surface Science</i> , 2014, 303, 217-232.	6.1	40
74	Excited state dynamics in phthalocyanines studied using degenerate four wave mixing with incoherent light. <i>Journal of Porphyrins and Phthalocyanines</i> , 2002, 06, 233-237.	0.8	38
75	Strong two-photon absorption properties and ultrafast pump-probe studies of novel porphyrin derivatives. <i>Chemical Physics Letters</i> , 2014, 610-611, 310-315.	2.6	38
76	Synthesis, growth, structural, optical, thermal, laser damage threshold and computational perspectives of 4-nitrophenol 4-aminobenzoic acid monohydrate (4NPABA) single crystal. <i>Journal of Molecular Structure</i> , 2019, 1176, 254-265.	3.6	38
77	Ultrafast relaxation times of metalloporphyrins by time-resolved degenerate four-wave mixing with incoherent light. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997, 14, 2710.	2.1	37
78	Quasi-phase-matched second-harmonic generation in a GaAs/AlAs superlattice waveguide by ion-implantation-induced intermixing. <i>Optics Letters</i> , 2003, 28, 911.	3.3	37
79	Morphological manipulation of the nonlinear optical response of ZnO thin films grown by thermal evaporation. <i>Materials Research Express</i> , 2014, 1, 046201.	1.6	37
80	N-Alkyl-p-nitroanilines: impact of alkyl chain length on crystal structures and optical SHG. <i>Journal of Materials Chemistry</i> , 1999, 9, 1699-1705.	6.7	36
81	Influence of picosecond multiple/single line ablation on copper nanoparticles fabricated for surface enhanced Raman spectroscopy and photonics applications. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 485501.	2.8	36
82	Enhanced optical limiting and carrier dynamics in metal oxide-hydrogen exfoliated graphene hybrids. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10116-10123.	5.5	36
83	Bulk growth, crystalline perfection and optical characteristics of inversely soluble lithium sulfate monohydrate single crystals grown by the conventional solvent evaporation and modified Sankaranarayanan's Ramasamy method. <i>CrystEngComm</i> , 2016, 18, 2072-2080.	2.6	36
84	2,4-dinitrotoluene detected using portable Raman spectrometer and femtosecond laser fabricated Au@Ag nanoparticles and nanostructures. <i>Nano Structures Nano Objects</i> , 2017, 12, 121-129.	3.5	36
85	Super-paramagnetic and unusual nonlinear absorption switching behavior of an in situ decorated CdFe <sub>2</sub> O <sub>4</sub> @rGO nanocomposite. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9929-9942.	5.5	34
86	Unsymmetrical $\hat{\Gamma}^2$ -functionalized $\hat{\Gamma}^{\text{push}}$ / $\hat{\Gamma}^{\text{pull}}$ porphyrins: synthesis and photophysical, electrochemical and nonlinear optical properties. <i>Dalton Transactions</i> , 2020, 49, 3198-3208.	3.3	34
87	Magnetic and nonlinear optical properties of BaTiO <sub>3</sub> nanoparticles. <i>AIP Advances</i> , 2015, 5, .	1.3	33
88	Plasmon-enhanced ultrafast and tunable thermo-optic nonlinear optical properties of femtosecond laser ablated TiO <sub>2</sub> and Silver-doped TiO <sub>2</sub> nanoparticles. <i>Applied Surface Science</i> , 2021, 569, 151070.	6.1	33
89	Surface enhanced fluorescence from corroles and SERS studies of explosives using copper nanostructures. <i>Chemical Physics Letters</i> , 2015, 621, 171-176.	2.6	32
90	Hierarchical Laser-Patterned Silver/Graphene Oxide Hybrid SERS Sensor for Explosive Detection. <i>ACS Omega</i> , 2019, 4, 17691-17701.	3.5	32

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91	Fabrication and optoelectronic characterisation of ZnO photonic structures. <i>Materials Letters</i> , 2008, 62, 1183-1186.	2.6	31
92	Growth and characterization of a new organic nonlinear optical crystal: 1-(3-Nitrophenyl)-5-phenylpenta-2,4-dien-1-one. <i>Optics and Laser Technology</i> , 2015, 71, 108-113.	4.6	31
93	Synthesis of ultra-small silicon nanoparticles by femtosecond laser ablation of porous silicon. <i>Journal of Materials Science</i> , 2015, 50, 1666-1672.	3.7	31
94	Three-dimensional hybrid silicon nanostructures for surface enhanced Raman spectroscopy based molecular detection. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	31
95	Comparative photophysical and femtosecond third-order nonlinear optical properties of novel imidazole substituted metal phthalocyanines. <i>Dyes and Pigments</i> , 2021, 184, 108791.	3.7	31
96	Fabrication of nanoparticles and nanostructures using ultrafast laser ablation of silver with Bessel beams. <i>Laser Physics Letters</i> , 2015, 12, 036003.	1.4	30
97	Tunable Nanosecond and Femtosecond Nonlinear Optical Properties of S-Doped TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24192-24205.	3.1	30
98	Femtosecond third order optical nonlinearity and optical limiting studies of (̂ <sup>3</sup> and ̂ <sup>2</sup> ) Barium borate nanostructures. <i>Materials Research Bulletin</i> , 2017, 87, 102-108.	5.2	30
99	Enhanced catalytic and SERS performance of shape/size controlled anisotropic gold nanostructures. <i>New Journal of Chemistry</i> , 2019, 43, 3835-3847.	2.8	30
100	Investigations on nonlinear optical properties of gold nanoparticles doped fluoroborate glasses for optical limiting applications. <i>Journal of Non-Crystalline Solids</i> , 2020, 538, 120010.	3.1	30
101	Nonlinear optical studies of inorganic nanoparticles-polymer nanocomposite coatings fabricated by electron beam curing. <i>Optics and Laser Technology</i> , 2016, 79, 24-31.	4.6	29
102	Cu nanoclusters in ion exchanged soda-lime glass: Study of SPR and nonlinear optical behavior for photonics. <i>Applied Materials Today</i> , 2019, 15, 323-334.	4.3	29
103	Optoelectronic, femtosecond nonlinear optical properties and excited state dynamics of a triphenyl imidazole induced phthalocyanine derivative. <i>RSC Advances</i> , 2019, 9, 36726-36741.	3.6	29
104	Gold-nanoparticle- and nanostar-loaded paper-based SERS substrates for sensing nanogram-level Picric acid with a portable Raman spectrometer. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	29
105	Fabrication of optical waveguides using proton beam writing. <i>Journal of Crystal Growth</i> , 2006, 288, 209-212.	1.5	28
106	Enhancement of the crystalline perfection of <math>\text{KDP}</math> directed KDP single crystal. <i>Current Applied Physics</i> , 2011, 11, 1343-1348.	2.4	28
107	Morphologically manipulated Ag/ZnO nanostructures as surface enhanced Raman scattering probes for explosives detection. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	28
108	Crystal growth and characterization of second- and third-order nonlinear optical chalcone derivative: (E)-3-(5-bromo-2-thienyl)-1-(4-nitrophenyl)prop-2-en-1-one. <i>Journal of Applied Crystallography</i> , 2018, 51, 1035-1042.	4.5	28



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109	Femtosecond to Microsecond Dynamics of Soret-Band Excited Corroles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28691-28700.	3.1	27
110	Cyclometalated Iridium(III) Complexes Containing 4,4'-Conjugated 2,2'-Bipyridine Derivatives as the Ancillary Ligands: Synthesis, Photophysics, and Computational Studies. <i>Inorganic Chemistry</i> , 2016, 55, 3530-3540.	4.0	27
111	Ultrafast nonlinear optical properties and excited-state dynamics of Soret-band excited D-D porphyrins. <i>Optical Materials</i> , 2020, 107, 110041.	3.6	27
112	Enhanced non-linear optical properties of Eu <sup>3+</sup> activated glasses by embedding silver nanoparticles. <i>Ceramics International</i> , 2021, 47, 16801-16808.	4.8	27
113	Structural, optical and femtosecond third-order nonlinear optical properties of LiNbO <sub>3</sub> thin films. <i>Materials Research Bulletin</i> , 2017, 94, 342-351.	5.2	26
114	ZnSe/PVP nanocomposites: Synthesis, structural and nonlinear optical analysis. <i>Materials Chemistry and Physics</i> , 2017, 197, 208-214.	4.0	26
115	Experimental evidence of two-photon absorption and its saturation in malachite green oxalate: a femtosecond Z-scan study. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2906.	2.1	26
116	Femtosecond Laser-Induced Breakdown Spectroscopy Studies of Nitropyrazoles: The Effect of Varying Nitro Groups. <i>Applied Spectroscopy</i> , 2015, 69, 1342-1354.	2.2	25
117	Synthesis of CuO hollow nanoparticles using laser ablation: effect of fluence and solvents. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	25
118	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 205106.	2.8	24
119	Synthesis and femtosecond third order nonlinear optical properties of push-pull trans- A 2 B-corroles. <i>Dyes and Pigments</i> , 2017, 143, 324-330.	3.7	24
120	Broadband femtosecond nonlinear optical properties of silver nanowire films. <i>Optical Materials</i> , 2019, 96, 109305.	3.6	24
121	Giant Nonlinear Optical Response in Triple Cation Halide Mixed Perovskite Films. <i>Advanced Optical Materials</i> , 2020, 8, 1901766.	7.3	24
122	Standoff discrimination and trace detection of explosive molecules using femtosecond filament induced breakdown spectroscopy combined with silver nanoparticles. <i>OSA Continuum</i> , 2019, 2, 554.	1.8	24
123	Tunable femtosecond nonlinear absorption and optical limiting thresholds of La <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses by controlling the borate structural units. <i>Scripta Materialia</i> , 2022, 211, 114530.	5.2	24
124	Femtosecond-laser direct writing in polymers and potential applications in microfluidics and memory devices. <i>Optical Engineering</i> , 2012, 51, 073402.	1.0	23
125	Surface-enhanced Raman scattering studies of gold-coated ripple-like nanostructures on iron substrate achieved by femtosecond laser irradiation in water. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1103-1113.	2.5	23
126	Ultrafast photophysical and nonlinear optical properties of novel free base and axially substituted phosphorus (V) corroles. <i>Journal of Molecular Liquids</i> , 2020, 311, 113308.	4.9	23



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127	Luminescent microstructures in bulk and thin films of PMMA, PDMS, PVA, and PS fabricated using femtosecond direct writing technique. <i>Chemical Physics Letters</i> , 2011, 503, 57-60.	2.6	22
128	Quantitative Analysis of Catalysis and SERS Performance in Hollow and Star-Shaped Au Nanostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16210-16222.	3.1	22
129	Low cost "green" dye sensitized solar cells based on New Fuchsin dye with aqueous electrolyte and platinum-free counter electrodes. <i>Solar Energy</i> , 2019, 188, 913-923.	6.1	21
130	Study of Tunable Plasmonic, Photoluminescence, and Nonlinear Optical Behavior of Ag Nanoclusters Embedded in a Glass Matrix for Multifunctional Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800768.	1.8	21
131	Multistep Electron Injection Dynamics and Optical Nonlinearity Investigations of $\pi$ -Extended Thioalkyl-Substituted Tetrathiafulvalene Sensitizers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24039-24051.	3.1	21
132	High Harmonic Generation from Laser-Induced Plasmas of Ni-Doped CsPbBr <sub>3</sub> Nanocrystals: Implications for Extreme Ultraviolet Light Sources. <i>ACS Applied Nano Materials</i> , 2021, 4, 8292-8301.	5.0	21
133	Picosecond nonlinear optical studies of gold nanoparticles synthesised using coriander leaves ( <i>Coriandrum sativum</i> ). <i>Journal of Modern Optics</i> , 2011, 58, 1024-1029.	1.3	20
134	Multi-functional gallium arsenide nanoparticles and nanostructures fabricated using picosecond laser ablation. <i>Applied Surface Science</i> , 2022, 589, 152802.	6.1	20
135	Silicon Nanostructures for Molecular Sensing: A Review. <i>ACS Applied Nano Materials</i> , 2022, 5, 4550-4582.	5.0	20
136	Optical, electrochemical, third-order nonlinear optical, and excited state dynamics studies of thio-zinc phthalocyanine. <i>Journal of Porphyrins and Phthalocyanines</i> , 2014, 18, 305-315.	0.8	19
137	Wavelength dependent nonlinear optical switching in electron beam irradiated CuTTBPC thin film. <i>RSC Advances</i> , 2016, 6, 22083-22089.	3.6	19
138	Synthesis of Si/SiO <sub>2</sub> nanoparticles using nanosecond laser ablation of silicate-rich garnet in water. <i>Optical Materials</i> , 2018, 75, 350-356.	3.6	19
139	Ultrafast excited state dynamics and femtosecond nonlinear optical properties of laser fabricated Au and Ag <sub>50</sub> Au <sub>50</sub> nanoparticles. <i>Optical Materials</i> , 2019, 95, 109239.	3.6	19
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