Pm Anbarasan

List of Publications by Citations

Source: https://exaly.com/author-pdf/3453762/pm-anbarasan-publications-by-citations.pdf
Version: 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94 papers	1,340 citations	21 h-index	31 g-index
102 ext. papers	1,630 ext. citations	2.9 avg, IF	5.12 L-index

#	Paper	IF	Citations
94	Multi-functional properties of ternary CeO 2 /SnO 2 /rGO nanocomposites: Visible light driven photocatalyst and heavy metal removal. *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 346, 32-45	4.7	81
93	Quantum chemistry calculations of 3-Phenoxyphthalonitrile dye sensitizer for solar cells. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2010**, 77, 45-50	4.4	64
92	Computationally guided synthesis of (2D/3D/2D) rGO/Fe2O3/g-C3N4 nanostructure with improved charge separation and transportation efficiency for degradation of pharmaceutical molecules. *Applied Catalysis B: Environmental*, **2019**, 255, 117758	21.8	59
91	Mechanistic investigation of visible light driven novel La2CuO4/CeO2/rGO ternary hybrid nanocomposites for enhanced photocatalytic performance and antibacterial activity. *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 340, 96-108	4.7	51
90	High efficient catalytic degradation of tetracycline and ibuprofen using visible light driven novel Cu/Bi2Ti2O7/rGO nanocomposite: Kinetics, intermediates and mechanism. *Journal of Industrial and Engineering Chemistry*, **2019**, 72, 512-528	6.3	50
89	Thermal, dielectric studies on pure and amino acid (l-glutamic acid, l-histidine, l-valine) doped KDP single crystals. *Optical Materials*, **2008**, 30, 1361-1368	3.3	48
88	Improvement of lens axicons performance for longitudinally polarized beam generation by adding a dedicated phase transmittance. *Optics Express*, **2010**, 18, 26799-805	3.3	38
87	Synthesis and investigation on synergetic effect of rGO-ZnO decorated MoS2 microflowers with enhanced photocatalytic and antibacterial activity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 559, 43-53	5.1	36
86	Crumpled sheet like graphene based WO3-Fe2O3 nanocomposites for enhanced charge transfer and solar photocatalysts for environmental remediation. *Applied Surface Science*, **2019**, 470, 114-128	6.7	34
85	Generation of sub wavelength super-long dark channel using high NA lens axicon. *Optics Letters*, **2012**, 37, 999-1001	3	31
84	Green synthesis of pH-responsive Al2O3 nanoparticles: Application to rapid removal of nitrate ions with enhanced antibacterial activity. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 371, 205-215	4.7	30
83	High capable visible light driven photocatalytic activity of WO3/g-C3N4 hetrostructure catalysts synthesized by a novel one step microwave irradiation route. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 3294-3304	2.1	30
82	DFT and TD-DFT study on geometries, electronic structures and electronic absorption of some metal free dye sensitizers for dye sensitized solar cells. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 135, 1066-73	4.4	29
81	Growth and characterization of metal ions and dyes doped KDP single crystals for laser applications. *Materials Research Bulletin*, **2008**, 43, 1716-1723	5.1	29
80	Tight focusing of double ring shaped radially polarized beam with high NA lens axicon. *Optics and Laser Technology*, **2011**, 43, 1037-1040	4.2	28
79	Generation of sub-wavelength and super-resolution longitudinally polarized non-diffraction beam using lens axicon. *Chinese Optics Letters*, **2008**, 6, 785-787	2.2	27
78	Optimization and detailed stability study on Pb doped ceria nanocubes for enhanced photodegradation of several anionic and cationic organic pollutants. *Arabian Journal of Chemistry*, **2020**, 13, 1309-1322	5.9	26

77	Molecular structure, NMR and vibrational spectral analysis of 2,4-difluorophenol by ab initio HF and density functional theory. *Journal of Raman Spectroscopy*, **2009**, 40, 1657-1663	2.3	24
76	Habit modification and improvement in properties of potassium hydrogen phthalate (KAP) crystals doped with metal ions. *Crystal Research and Technology*, **2006**, 41, 221-224	1.3	24
75	Sensitivity enhancement of surface plasmon resonance sensor with 2D material covered noble and magnetic material (Ni). *Optical and Quantum Electronics*, **2019**, 51, 1	2.4	24
74	Second order hyperpolarizability of triphenylamine based organic sensitizers: a first principle theoretical study. *RSC Advances*, **2016**, 6, 75242-75250	3.7	23
73	DFT simulations and vibrational analysis of FT-IR and FT-Raman spectra of 2,4-diamino-6-hydroxypyrimidine. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2009**, 73, 642-9	4.4	21
72	Influence of donor substitution at (mathrm{D}{-}uppi {-}mathrm{A}) architecture in efficient sensitizers for dye-sensitized solar cells: first-principle study. *Bulletin of Materials Science*, **2017**, 40, 1389-1396	1.7	19
71	Green synthesis of silver nanoparticles using Gymnema sylvestre leaf extract and evaluation of its antibacterial activity. *South African Journal of Chemical Engineering*, **2020**, 32, 1-4	3.2	19
70	Structural and optical properties of Purpurin for dye-sensitized solar cells. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 149, 997-1008	4.4	18
69	First-principles study of efficient phenothiazine-based D□A organic sensitizers with various spacers for DSSCs. *Journal of Computational Electronics*, **2018**, 17, 1410-1420	1.8	18
68	Effect of irradiation of swift heavy ions on dyes-doped KDP crystals for laser applications. *Journal of Crystal Growth*, **2008**, 310, 1999-2004	1.6	18
67	Creation of Super Long Transversely Polarized Optical Needle Using Azimuthally Polarized Multi Gaussian Beam. *Chinese Physics Letters*, **2016**, 33, 064203	1.8	16
66	Generation of sub-wavelength longitudinal magnetic probe using high numerical aperture lens axicon and binary phase plate. *Journal of Optics (United Kingdom)*, **2012**, 14, 055704	1.7	16
65	Fabrication of Hexagonal Disc Shaped Nanoparticles g-C3N4/NiO Heterostructured Nanocomposites for Efficient Visible Light Photocatalytic Performance. *Journal of Cluster Science*, **2019**, 30, 757-766	3	15
64	Structural, optical and photocatlytic properties of zinc oxide nanoparticles obtained by simple plant extract mediated synthesis. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 1927-1935	2.1	15
63	Ultrasonically and Photonically Simulatable Bi-Ceria Nanocubes for Enhanced Catalytic Degradation of Aqueous Dyes: A Detailed Study on Optimization, Mechanism and Stability. *ChemistrySelect*, **2018**, 3, 12841-12853	1.8	15
62	Structural, morphological and luminescence studies on pristine and La doped zinc oxide (ZnO) nanoparticles. *Optik*, **2015**, 126, 1555-1558	2.5	14
61	Green synthetic approach of silver nanoparticles from Bauhinia tomentosa Linn. leaves extract for potent photocatalytic and in vitro biological applications. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 11509-11520	2.1	14
60	Computational Investigation on Series of Metal-Free Sensitizers in Tetrahydroquinoline with Different □spacer Groups for DSSCs. *ChemistrySelect*, **2019**, 4, 4097-4104	1.8	13

59	Highly efficient organic indolocarbazole dye in different acceptor units for optoelectronic applications□ first principle study. *Structural Chemistry*, **2018**, 29, 967-976	1.8	13
58	Ecofriendly green synthesis of ZnO nanostructures using Artabotrys Hexapetalu and Bambusa Vulgaris plant extract and investigation on their photocatalytic and antibacterial activity. *Materials Research Express*, **2019**, 6, 105098	1.7	13
57	FT-IR, NIR-FT-Raman and gas phase infrared spectra of 3-aminoacetophenone by density functional theory and ab initio Hartree-Fock calculations. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 71, 59-67	4.4	13
56	Optoelectronic Properties of a Simple Metal-Free Organic Sensitizer with Different Spacer Groups: Quantum Chemical Assessments. *Journal of Electronic Materials*, **2019**, 48, 1522-1530	1.9	13
55	Development of high-performance fiber optic gas sensor based rice-like CeO2/MWCNT nanocomposite synthesized by facile hydrothermal route. *Optics and Laser Technology*, **2020**, 123, 105902	4.2	12
54	Sol□el synthesis of Co3O4 nanoparticles as an electrode material for supercapacitor applications. *Journal of Sol-Gel Science and Technology*, **2020**, 96, 416-422	2.3	12
53	Structural and Spectral Properties of 1,2-dihydroxy-9,10-anthraquinone Dye Sensitizer for Solar Cell Applications. *Acta Physica Polonica A*, **2014**, 126, 833-840	0.6	11
52	Synthesis of dumbbell shaped ZnO crystals using one-pot hydrothermal method and their characterisations. *Materials Letters*, **2014**, 122, 230-233	3.3	10
51	Geometries, electronic structures and vibrational spectral studies of 4-aminophthalonitrile using quantum chemical calculations for dye sensitized solar cells. *Indian Journal of Physics*, **2011**, 85, 1477-1494	1.4	10
50	Molecular structure, vibrational spectroscopic studies and natural bond orbital analysis of 7-amino-4-trifluoromethyl coumarin **2010**, 74, 845-850		10
49	Hydrothermal assisted phytofabrication of zinc oxide nanoparticles with different nanoscale characteristics for the photocatlytic degradation of Rhodamine B. *Optik*, **2020**, 202, 163607	2.5	10
48	A facile microwave stimulated g-C3N4/□Fe2O3 hybrid photocatalyst with superior photocatalytic activity and attractive cycling stability. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 10985-10993	2.1	9
47	Quantum chemical investigations on the effect of dodecyloxy chromophore in 4-amino stilbene sensitizer for DSSCs. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 122, 15-21	4.4	9
46	Molecular modeling of 4-methylphthalonitrile for dye sensitized solar cells using quantum chemical calculations. *Journal of Molecular Modeling*, **2011**, 17, 49-58	2	9
45	Spectral and Morphological Studies of Nanocrystalline Silicon Thin Films Synthesized by PECVD for Solar Cells. *Silicon*, **2010**, 2, 7-17	2.4	9
44	FT-IR, FT-Raman spectra and DFT vibrational analysis of 2-aminobiphenyl. *Molecular Simulation*, **2008**, 34, 277-287	2	9
43	Enhancing Toxic Metal Ions and Dye Removal Properties of Nanostructured Terpolymer Formed by Diaminodiphenylmethane-Resorcinol-Formaldehyde. *ChemistrySelect*, **2017**, 2, 9501-9510	1.8	8
42	Effect of donor (tetradecyloxy) and acceptor (carboxamide) groups in trans-stilbene for DSSCs: quantum chemical investigations. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 117, 181-5	4.4	8

41	2,3?-diamino-4,4?-stilbenedicarboxylic acid sensitizer for dye-sensitized solar cells: quantum chemical investigations. *Journal of Molecular Modeling*, **2013**, 19, 4561-73	2	8
40	DFT and TD-DFT Calculations of Some Metal Free Phthalonitrile Derivatives for Enhancement of the Dye Sensitized Solar Cells. *Acta Physica Polonica A*, **2011**, 119, 395-404	0.6	8
39	Agarose as an Efficient Inhibitor for Aluminium Corrosion in Acidic Medium: An Experimental and Theoretical Study. *Journal of Bio- and Tribo-Corrosion*, **2017**, 3, 1	2.9	7
38	Generation of Multiple Focal Hole Segments Using Double-Ring Shaped Azimuthally Polarized Beam. *Journal of Atomic and Molecular Physics*, **2013**, 2013, 1-4		7
37	Structural and optical properties of Sn doped ZnO-rGO nanostructures using hydrothermal technique. *Materials Today: Proceedings*, **2020**, 26, 3522-3525	1.4	7
36	Investigation on photocatalytic activity of bio-treated Fe2O3 nanoparticles using Phyllanthus niruri and Moringa stenopetala leaf extract against methylene blue and phenol molecules: Kinetics, mechanism and stability. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104996	6.8	7
35	Tight focusing properties of phase modulated transversely polarized sinh Gaussian beam. *Optical and Quantum Electronics*, **2017**, 49, 1	2.4	6
34	Generation of needle of transversely polarized beam using complex spiral phase mask. *Optical and Quantum Electronics*, **2015**, 47, 1027-1033	2.4	6
33	Tight focusing properties of phase modulated azimuthally polarized doughnut Gaussian beam. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	6
32	Theoretical and Experimental Study on Coupling Property of Distributed-Index Microlenses in Micro-Optics. *Journal of Optics (India)*, **2004**, 33, 37-45	1.3	6
31	Acceptor tuning effect on TPA-based organic efficient sensitizers for optoelectronic applicationsquantum chemical investigation. *Structural Chemistry*, **2020**, 31, 1029-1042	1.8	6
30	Extending the depth of focus with high NA lens axicon. *Optik*, **2011**, 122, 1619-1621	2.5	5
29	Effects of the bridge unit in D-A architecture to improve light harvesting efficiency at DSSCs: A first principle theoretical study. *Environmental Progress and Sustainable Energy*, **2018**, 37, 1403-1410	2.5	5
28	Aggregation properties and structural studies of anticancer drug Irinotecan in DMSO solution based on NMR measurements. *Journal of Molecular Structure*, **2012**, 1013, 26-35	3.4	4
27	Molecular modeling of 3,4-pyridinedicarbonitrile dye sensitizer for solar cells using quantum chemical calculations. *Journal of Saudi Chemical Society*, **2010**, 14, 399-407	4.3	4
26	Fabrication of Ultrathin Nanosheets of Graphitic Carbon Nitride Heterojunction with Spherical Shaped Bi2O3 Nanoparticles for High Performance Visible Light Photocatalyst. *Journal of Cluster Science*, **2020**, 31, 277-286	3	4
25	Tight focusing of phase modulated radially polarized hollow Gaussian beam using complex phase filter. *Optik*, **2014**, 125, 6965-6968	2.5	3
24	Generation of multiple focal holes by tightly focused azimuthally polarized double-ring-shaped beam with complex phase mask. *Optik*, **2014**, 125, 2225-2228	2.5	3

23	Generation of ultra-long focal depth by tight focusing of double-ring-shaped azimuthally polarized beam. *Journal of Optics (India)*, **2014**, 43, 278-283	1.3	3
22	Synthesis, photophysical, electrochemical, and DFT examinations of two new organic dye molecules based on phenothiazine and dibenzofuran.. *Journal of Molecular Modeling*, **2022**, 28, 34	2	3
21	Synthesis, spectroscopic characterization and molecular docking study of ethyl 2-(4-(5, 9-dihydro-6-hydroxy-2-mercapto-4H-purin-8-ylthio) thiophen-2-yl)-2-oxoacetate molecule for the chemotherapeutic treatment of breast cancer cells. *Chemical Physics*, **2020**, 530, 110596	2.3	3
20	A role of annealing temperature on the properties of lanthanum oxide (La2O3) microplates by reflux routes. *Materials Today: Proceedings*, **2020**, 26, 3576-3578	1.4	3
19	Stilbene Based Organic Dye as Efficient Sensitizer for NLO and Dye-Sensitized Solar Cells: A First Principle Study. *Materials Today: Proceedings*, **2019**, 9, 156-163	1.4	2
18	Tunable physicochemical and free volume characteristics of novel terpolymer□poly(vinyl alcohol)-grafted membranes for direct methanol fuel cells. *New Journal of Chemistry*, **2019**, 43, 2942-2954	3.6	2
17	Creation of super-length optical tube by phase modulated azimuthally polarized beam with multi-zone phase filter. *Optik*, **2015**, 126, 554-557	2.5	2
16	Formation of multiple focal spots using a high NA lens with a complex spiral phase mask. *Physica Scripta*, **2014**, 89, 075501	2.6	2
15	Synthesis of ZnO nanoflakes by the wet chemical method in the presence of Pb2+ alien cation and their structural and morphological properties. *Materials Letters*, **2013**, 106, 59-62	3.3	2
14	Structural and spectral properties of 4-phenoxyphthalonitrile dye sensitizer for solar cell applications. *Bulletin of Materials Science*, **2012**, 35, 265-275	1.7	2
13	Computational investigations on efficient metal-free organic D-□A dyes with different spacers for powerful DSSCs applications. *Molecular Simulation*,1-10	2	2
12	Formation of optical needle by high NA lens axicon with dedicated complex spiral phase mask. *Optical and Quantum Electronics*, **2015**, 47, 2017-2025	2.4	1
11	Effect of complex phase plate on tight focusing of azimuthally polarized double ring shaped beam. *Optik*, **2014**, 125, 4047-4050	2.5	1
10	Study on higher order azimuthally polarized Laguerre□Gaussian mode beams with high NA lens. *Iranian Physical Journal*, **2014**, 8, 1		1
9	Power Coupling Efficiency Enhancement in Multimode Step-Index Fiber Using Refractive and Diffractive Microlenses. *International Journal of Optics*, **2010**, 2010, 1-7	0.9	1
8	THERMAL, DIELECTRIC STUDIES ON PURE AND AMINO ACID (L-GLUTAMIC ACID, L-HISTIDINE, L-VALINE) DOPED POTASSIUM DIHYDROGEN PHOSPHATE SINGLE CRYSTALS. *Journal of Nonlinear Optical Physics and Materials*, **2007**, 16, 255-268	0.8	1
7	Electrochemical supercapacitor studies of Ni2+-doped SrTiO3 nanoparticles by a ball milling method. *Ionics*, **2020**, 26, 3591-3597	2.7	1
6	Computational analysis of carbazole-based newly efficient D-□A organic spacer dye derivatives for dye-sensitized solar cells. *Structural Chemistry*,1	1.8	1

5	Synthesis, structural analysis, spectroscopic characterization and second order hyperpolarizability of 2-amino-4-methylpyridiniium-4-hydroxybenzolate crystal. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 20489-20505	2.1	0
4	New Phenoxazine-Based Organic Dyes with Various Acceptors for Dye-Sensitized Solar Cells: Synthesis, Characterization, DSSCs Fabrications and DFT Study. *Journal of Computational Biophysics and Chemistry*, **2021**, 20, 465-476		0
3	D-A manufactured organic dye molecules with different spacers for highly efficient reliable DSSCs via computational analysis. *Molecular Simulation*,1-10	2	0
2	Creation of super-long bright channel using high NA lens axicon with dedicated multibelt binary phase mask. *Optical and Quantum Electronics*, **2015**, 47, 2009-2016	2.4	
1	Quantum chemical investigation on D-π-A-based phenothiazine organic chromophores with spacer and electron acceptor effects for DSSCs. *Structural Chemistry*,1	1.8	