

Pm Anbarasan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3453762/pm-anbarasan-publications-by-year.pdf>

Version: 2024-04-03

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	Synthesis, photophysical, electrochemical, and DFT examinations of two new organic dye molecules based on phenothiazine and dibenzofuran.. <i>Journal of Molecular Modeling</i> , 2022 , 28, 34	2	3
93	Investigation on photocatalytic activity of bio-treated γ -Fe ₂ O ₃ nanoparticles using Phyllanthus niruri and Moringa stenopetala leaf extract against methylene blue and phenol molecules: Kinetics, mechanism and stability. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104996	6.8	7
92	New Phenoxazine-Based Organic Dyes with Various Acceptors for Dye-Sensitized Solar Cells: Synthesis, Characterization, DSSCs Fabrications and DFT Study. <i>Journal of Computational Biophysics and Chemistry</i> , 2021 , 20, 465-476		0
91	Development of high-performance fiber optic gas sensor based rice-like CeO ₂ /MWCNT nanocomposite synthesized by facile hydrothermal route. <i>Optics and Laser Technology</i> , 2020 , 123, 105902	4.2	12
90	Acceptor tuning effect on TPA-based organic efficient sensitizers for optoelectronic applications—quantum chemical investigation. <i>Structural Chemistry</i> , 2020 , 31, 1029-1042	1.8	6
89	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. <i>Chemical Physics</i> , 2020 , 530, 110596	2.3	3
88	Green synthesis of silver nanoparticles using Gymnema sylvestre leaf extract and evaluation of its antibacterial activity. <i>South African Journal of Chemical Engineering</i> , 2020 , 32, 1-4	3.2	19
87	Electrochemical supercapacitor studies of Ni ²⁺ -doped SrTiO ₃ nanoparticles by a ball milling method. <i>Ionics</i> , 2020 , 26, 3591-3597	2.7	1
86	Sol-gel synthesis of Co ₃ O ₄ nanoparticles as an electrode material for supercapacitor applications. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 96, 416-422	2.3	12
85	Optimization and detailed stability study on Pb doped ceria nanocubes for enhanced photodegradation of several anionic and cationic organic pollutants. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 1309-1322	5.9	26
84	A role of annealing temperature on the properties of lanthanum oxide (La ₂ O ₃) microplates by reflux routes. <i>Materials Today: Proceedings</i> , 2020 , 26, 3576-3578	1.4	3
83	Hydrothermal assisted phytofabrication of zinc oxide nanoparticles with different nanoscale characteristics for the photocatalytic degradation of Rhodamine B. <i>Optik</i> , 2020 , 202, 163607	2.5	10
82	Structural and optical properties of Sn doped ZnO-rGO nanostructures using hydrothermal technique. <i>Materials Today: Proceedings</i> , 2020 , 26, 3522-3525	1.4	7
81	Fabrication of Ultrathin Nanosheets of Graphitic Carbon Nitride Heterojunction with Spherical Shaped Bi ₂ O ₃ Nanoparticles for High Performance Visible Light Photocatalyst. <i>Journal of Cluster Science</i> , 2020 , 31, 277-286	3	4
80	Stilbene Based Organic Dye as Efficient Sensitizer for NLO and Dye-Sensitized Solar Cells: A First Principle Study. <i>Materials Today: Proceedings</i> , 2019 , 9, 156-163	1.4	2
79	Tunable physicochemical and free volume characteristics of novel terpolymer-poly(vinyl alcohol)-grafted membranes for direct methanol fuel cells. <i>New Journal of Chemistry</i> , 2019 , 43, 2942-2954	3.6	2
78	A facile microwave stimulated g-C ₃ N ₄ / γ -Fe ₂ O ₃ hybrid photocatalyst with superior photocatalytic activity and attractive cycling stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10985-10993	2.1	9

77	Computationally guided synthesis of (2D/3D/2D) rGO/Fe ₂ O ₃ /g-C ₃ N ₄ nanostructure with improved charge separation and transportation efficiency for degradation of pharmaceutical molecules. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117758	21.8	59
76	Fabrication of Hexagonal Disc Shaped Nanoparticles g-C ₃ N ₄ /NiO Heterostructured Nanocomposites for Efficient Visible Light Photocatalytic Performance. <i>Journal of Cluster Science</i> , 2019 , 30, 757-766	3	15
75	Computational Investigation on Series of Metal-Free Sensitizers in Tetrahydroquinoline with Different Spacer Groups for DSSCs. <i>ChemistrySelect</i> , 2019 , 4, 4097-4104	1.8	13
74	Ecofriendly green synthesis of ZnO nanostructures using Artabotrys Hexapetalu and Bambusa Vulgaris plant extract and investigation on their photocatalytic and antibacterial activity. <i>Materials Research Express</i> , 2019 , 6, 105098	1.7	13
73	Synthesis, structural analysis, spectroscopic characterization and second order hyperpolarizability of 2-amino-4-methylpyridinium-4-hydroxybenzoate crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 20489-20505	2.1	0
72	Sensitivity enhancement of surface plasmon resonance sensor with 2D material covered noble and magnetic material (Ni). <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	24
71	Crumpled sheet like graphene based WO ₃ -Fe ₂ O ₃ nanocomposites for enhanced charge transfer and solar photocatalysts for environmental remediation. <i>Applied Surface Science</i> , 2019 , 470, 114-128	6.7	34
70	Green synthesis of pH-responsive Al ₂ O ₃ nanoparticles: Application to rapid removal of nitrate ions with enhanced antibacterial activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 371, 205-215	4.7	30
69	High capable visible light driven photocatalytic activity of WO ₃ /g-C ₃ N ₄ heterostructure catalysts synthesized by a novel one step microwave irradiation route. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3294-3304	2.1	30
68	Optoelectronic Properties of a Simple Metal-Free Organic Sensitizer with Different Spacer Groups: Quantum Chemical Assessments. <i>Journal of Electronic Materials</i> , 2019 , 48, 1522-1530	1.9	13
67	High efficient catalytic degradation of tetracycline and ibuprofen using visible light driven novel Cu/Bi ₂ Ti ₂ O ₇ /rGO nanocomposite: Kinetics, intermediates and mechanism. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 72, 512-528	6.3	50
66	Structural, optical and photocatalytic properties of zinc oxide nanoparticles obtained by simple plant extract mediated synthesis. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 1927-1935	2.1	15
65	Highly efficient organic indolocarbazole dye in different acceptor units for optoelectronic applications: A first principle study. <i>Structural Chemistry</i> , 2018 , 29, 967-976	1.8	13
64	First-principles study of efficient phenothiazine-based D- π -A organic sensitizers with various spacers for DSSCs. <i>Journal of Computational Electronics</i> , 2018 , 17, 1410-1420	1.8	18
63	Green synthetic approach of silver nanoparticles from Bauhinia tomentosa Linn. leaves extract for potent photocatalytic and in vitro biological applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 11509-11520	2.1	14
62	Effects of the bridge unit in D- π -A architecture to improve light harvesting efficiency at DSSCs: A first principle theoretical study. <i>Environmental Progress and Sustainable Energy</i> , 2018 , 37, 1403-1410	2.5	5
61	Ultrasonically and Photonicallly Simulatable Bi-Ceria Nanocubes for Enhanced Catalytic Degradation of Aqueous Dyes: A Detailed Study on Optimization, Mechanism and Stability. <i>ChemistrySelect</i> , 2018 , 3, 12841-12853	1.8	15
60	Synthesis and investigation on synergetic effect of rGO-ZnO decorated MoS ₂ microflowers with enhanced photocatalytic and antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 559, 43-53	5.1	36

59	Mechanistic investigation of visible light driven novel La ₂ CuO ₄ /CeO ₂ /rGO ternary hybrid nanocomposites for enhanced photocatalytic performance and antibacterial activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 340, 96-108	4.7	51
58	Multi-functional properties of ternary CeO ₂ /SnO ₂ /rGO nanocomposites: Visible light driven photocatalyst and heavy metal removal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 346, 32-45	4.7	81
57	Tight focusing properties of phase modulated transversely polarized sinh Gaussian beam. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	6
56	Enhancing Toxic Metal Ions and Dye Removal Properties of Nanostructured Terpolymer Formed by Diaminodiphenylmethane-Resorcinol-Formaldehyde. <i>ChemistrySelect</i> , 2017 , 2, 9501-9510	1.8	8
55	Agarose as an Efficient Inhibitor for Aluminium Corrosion in Acidic Medium: An Experimental and Theoretical Study. <i>Journal of Bio- and Tribo-Corrosion</i> , 2017 , 3, 1	2.9	7
54	Influence of donor substitution at (mathrm{D}){-}uppi {-}mathrm{A}) architecture in efficient sensitizers for dye-sensitized solar cells: first-principle study. <i>Bulletin of Materials Science</i> , 2017 , 40, 1389-1396 ¹⁹	1.7	19
53	Second order hyperpolarizability of triphenylamine based organic sensitizers: a first principle theoretical study. <i>RSC Advances</i> , 2016 , 6, 75242-75250	3.7	23
52	Creation of Super Long Transversely Polarized Optical Needle Using Azimuthally Polarized Multi Gaussian Beam. <i>Chinese Physics Letters</i> , 2016 , 33, 064203	1.8	16
51	Tight focusing properties of phase modulated azimuthally polarized doughnut Gaussian beam. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	6
50	Creation of super-long bright channel using high NA lens axicon with dedicated multibelt binary phase mask. <i>Optical and Quantum Electronics</i> , 2015 , 47, 2009-2016	2.4	
49	Structural and optical properties of Purpurin for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 149, 997-1008	4.4	18
48	Formation of optical needle by high NA lens axicon with dedicated complex spiral phase mask. <i>Optical and Quantum Electronics</i> , 2015 , 47, 2017-2025	2.4	1
47	Structural, morphological and luminescence studies on pristine and La doped zinc oxide (ZnO) nanoparticles. <i>Optik</i> , 2015 , 126, 1555-1558	2.5	14
46	Creation of super-length optical tube by phase modulated azimuthally polarized beam with multi-zone phase filter. <i>Optik</i> , 2015 , 126, 554-557	2.5	2
45	DFT and TD-DFT study on geometries, electronic structures and electronic absorption of some metal free dye sensitizers for dye sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 1066-73	4.4	29
44	Generation of needle of transversely polarized beam using complex spiral phase mask. <i>Optical and Quantum Electronics</i> , 2015 , 47, 1027-1033	2.4	6
43	Quantum chemical investigations on the effect of dodecyloxy chromophore in 4-amino stilbene sensitizer for DSSCs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 122, 15-21	4.4	9
42	Effect of donor (tetradecyloxy) and acceptor (carboxamide) groups in trans-stilbene for DSSCs: quantum chemical investigations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 117, 181-5	4.4	8

41	Effect of complex phase plate on tight focusing of azimuthally polarized double ring shaped beam. <i>Optik</i> , 2014 , 125, 4047-4050	2.5	1
40	Tight focusing of phase modulated radially polarized hollow Gaussian beam using complex phase filter. <i>Optik</i> , 2014 , 125, 6965-6968	2.5	3
39	Formation of multiple focal spots using a high NA lens with a complex spiral phase mask. <i>Physica Scripta</i> , 2014 , 89, 075501	2.6	2
38	Synthesis of dumbbell shaped ZnO crystals using one-pot hydrothermal method and their characterisations. <i>Materials Letters</i> , 2014 , 122, 230-233	3.3	10
37	Study on higher order azimuthally polarized Laguerre-Gaussian mode beams with high NA lens. <i>Iranian Physical Journal</i> , 2014 , 8, 1		1
36	Generation of multiple focal holes by tightly focused azimuthally polarized double-ring-shaped beam with complex phase mask. <i>Optik</i> , 2014 , 125, 2225-2228	2.5	3
35	Generation of ultra-long focal depth by tight focusing of double-ring-shaped azimuthally polarized beam. <i>Journal of Optics (India)</i> , 2014 , 43, 278-283	1.3	3
34	Structural and Spectral Properties of 1,2-dihydroxy-9,10-anthraquinone Dye Sensitizer for Solar Cell Applications. <i>Acta Physica Polonica A</i> , 2014 , 126, 833-840	0.6	11
33	Synthesis of ZnO nanoflakes by the wet chemical method in the presence of Pb ²⁺ alien cation and their structural and morphological properties. <i>Materials Letters</i> , 2013 , 106, 59-62	3.3	2
32	2,3?-diamino-4,4?-stilbenedicarboxylic acid sensitizer for dye-sensitized solar cells: quantum chemical investigations. <i>Journal of Molecular Modeling</i> , 2013 , 19, 4561-73	2	8
31	Generation of Multiple Focal Hole Segments Using Double-Ring Shaped Azimuthally Polarized Beam. <i>Journal of Atomic and Molecular Physics</i> , 2013 , 2013, 1-4		7
30	Aggregation properties and structural studies of anticancer drug Irinotecan in DMSO solution based on NMR measurements. <i>Journal of Molecular Structure</i> , 2012 , 1013, 26-35	3.4	4
29	Structural and spectral properties of 4-phenoxyphthalonitrile dye sensitizer for solar cell applications. <i>Bulletin of Materials Science</i> , 2012 , 35, 265-275	1.7	2
28	Generation of sub wavelength super-long dark channel using high NA lens axicon. <i>Optics Letters</i> , 2012 , 37, 999-1001	3	31
27	Generation of sub-wavelength longitudinal magnetic probe using high numerical aperture lens axicon and binary phase plate. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 055704	1.7	16
26	Molecular modeling of 4-methylphthalonitrile for dye sensitized solar cells using quantum chemical calculations. <i>Journal of Molecular Modeling</i> , 2011 , 17, 49-58	2	9
25	Tight focusing of double ring shaped radially polarized beam with high NA lens axicon. <i>Optics and Laser Technology</i> , 2011 , 43, 1037-1040	4.2	28
24	Geometries, electronic structures and vibrational spectral studies of 4-aminophthalonitrile using quantum chemical calculations for dye sensitized solar cells. <i>Indian Journal of Physics</i> , 2011 , 85, 1477-1494	1.4	10

23	Extending the depth of focus with high NA lens axicon. <i>Optik</i> , 2011 , 122, 1619-1621	2.5	5
22	DFT and TD-DFT Calculations of Some Metal Free Phthalonitrile Derivatives for Enhancement of the Dye Sensitized Solar Cells. <i>Acta Physica Polonica A</i> , 2011 , 119, 395-404	0.6	8
21	Power Coupling Efficiency Enhancement in Multimode Step-Index Fiber Using Refractive and Diffractive Microlenses. <i>International Journal of Optics</i> , 2010 , 2010, 1-7	0.9	1
20	Improvement of lens axicon's performance for longitudinally polarized beam generation by adding a dedicated phase transmittance. <i>Optics Express</i> , 2010 , 18, 26799-805	3.3	38
19	Spectral and Morphological Studies of Nanocrystalline Silicon Thin Films Synthesized by PECVD for Solar Cells. <i>Silicon</i> , 2010 , 2, 7-17	2.4	9
18	Molecular structure, vibrational spectroscopic studies and natural bond orbital analysis of 7-amino-4-trifluoromethyl coumarin 2010 , 74, 845-850		10
17	Quantum chemistry calculations of 3-Phenoxyphthalonitrile dye sensitizer for solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 45-50	4.4	64
16	Molecular modeling of 3,4-pyridinedicarbonitrile dye sensitizer for solar cells using quantum chemical calculations. <i>Journal of Saudi Chemical Society</i> , 2010 , 14, 399-407	4.3	4
15	Molecular structure, NMR and vibrational spectral analysis of 2,4-difluorophenol by ab initio HF and density functional theory. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1657-1663	2.3	24
14	DFT simulations and vibrational analysis of FT-IR and FT-Raman spectra of 2,4-diamino-6-hydroxypyrimidine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 642-9	4.4	21
13	Growth and characterization of metal ions and dyes doped KDP single crystals for laser applications. <i>Materials Research Bulletin</i> , 2008 , 43, 1716-1723	5.1	29
12	Generation of sub-wavelength and super-resolution longitudinally polarized non-diffraction beam using lens axicon. <i>Chinese Optics Letters</i> , 2008 , 6, 785-787	2.2	27
11	FT-IR, FT-Raman spectra and DFT vibrational analysis of 2-aminobiphenyl. <i>Molecular Simulation</i> , 2008 , 34, 277-287	2	9
10	Effect of irradiation of swift heavy ions on dyes-doped KDP crystals for laser applications. <i>Journal of Crystal Growth</i> , 2008 , 310, 1999-2004	1.6	18
9	Thermal, dielectric studies on pure and amino acid (l-glutamic acid, l-histidine, l-valine) doped KDP single crystals. <i>Optical Materials</i> , 2008 , 30, 1361-1368	3.3	48
8	FT-IR, NIR-FT-Raman and gas phase infrared spectra of 3-aminoacetophenone by density functional theory and ab initio Hartree-Fock calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 59-67	4.4	13
7	THERMAL, DIELECTRIC STUDIES ON PURE AND AMINO ACID (L-GLUTAMIC ACID, L-HISTIDINE, L-VALINE) DOPED POTASSIUM DIHYDROGEN PHOSPHATE SINGLE CRYSTALS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2007 , 16, 255-268	0.8	1
6	Habit modification and improvement in properties of potassium hydrogen phthalate (KAP) crystals doped with metal ions. <i>Crystal Research and Technology</i> , 2006 , 41, 221-224	1.3	24

5	Theoretical and Experimental Study on Coupling Property of Distributed-Index Microlenses in Micro-Optics. <i>Journal of Optics (India)</i> , 2004 , 33, 37-45	1.3	6
4	Computational investigations on efficient metal-free organic D- π A dyes with different spacers for powerful DSSCs applications. <i>Molecular Simulation</i> ,1-10	2	2
3	Quantum chemical investigation on D- π A-based phenothiazine organic chromophores with spacer and electron acceptor effects for DSSCs. <i>Structural Chemistry</i> ,1	1.8	
2	D π A manufactured organic dye molecules with different spacers for highly efficient reliable DSSCs via computational analysis. <i>Molecular Simulation</i> ,1-10	2	0
1	Computational analysis of carbazole-based newly efficient D- π A organic spacer dye derivatives for dye-sensitized solar cells. <i>Structural Chemistry</i> ,1	1.8	1