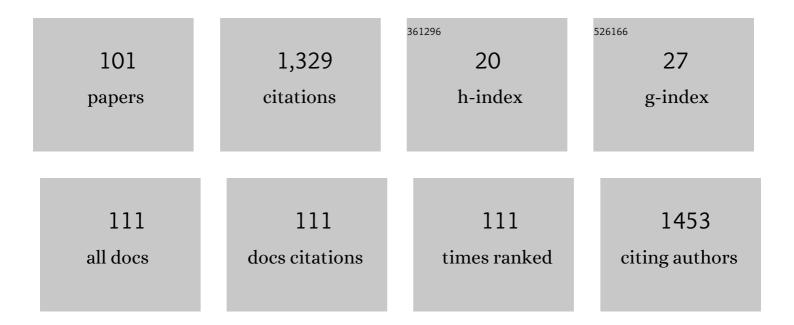
Kulathu Iyer Sathiyanarayanan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9031720/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A sustainable synthesis of green carbon quantum dot (CQD) from Catharanthus roseus (white) Tj ETQq1 1 0.7843 detection and biological applications. Sustainable Materials and Technologies, 2020, 23, e00138.	814 rgBT / 1.7	Overlock 10 54
2	A colorimetric and ratiometric fluorescent sensor for biogenic primary amines based on dicyanovinyl substituted phenanthridine conjugated probe. Dyes and Pigments, 2020, 178, 108346.	2.0	43
3	Rapid one pot synthesis of xanthene derivatives by an efficient and reusable nano-ZnAl2O4 – An insight into a new process. Journal of Molecular Catalysis A, 2014, 391, 198-207.	4.8	42
4	Synthesis, spectroscopic characterization and in vitro studies of new heteroleptic copper (II) complexes derived from 2-hydroxy napthaldehyde Schiff's bases and N, N donor ligands: Antimicrobial, DNA binding and cytotoxic investigations. Inorganica Chimica Acta, 2015, 433, 26-34.	1.2	42
5	Efficient iodine catalyzed three components domino reaction for the synthesis of 1-((phenylthio)(phenyl)methyl)pyrrolidin-2-one derivatives possessing anticancer activities. Organic and Biomolecular Chemistry, 2012, 10, 5343.	1.5	40
6	(Tetrahydrodibenzo[<i>a</i> , <i>i</i>]phenanthridin-5-yl)phenol as a Fluorescent Probe for the Detection of Aniline. Journal of Organic Chemistry, 2019, 84, 11513-11523.	1.7	32
7	Use of vegetable oil as fuel to improve the efficiency of cooking stove. Renewable Energy, 2008, 33, 2423-2427.	4.3	31
8	Metal-Free, One-Pot, Rapid Synthesis of Tetrahydropyridines Using Acetic Acid as Solvent and Catalyst at Room Temperature. Synthetic Communications, 2014, 44, 943-953.	1.1	28
9	Dual behavior of 2â€tetralone: A new approach for the synthesis of 5â€arylâ€7,8,13,14â€tetrahydrodibenzo[<i>a</i> , <i>i</i>]phenanthridine. Journal of Heterocyclic Chemistry, 2009, 46, 1142-1144.	1.4	27
10	Synthesis and Optical Properties of a Series of Greenâ€Lightâ€Emitting 2â€(4â€Phenylquinolinâ€2â€yl)phenol–BF ₂ Complexes (Boroquinols). European Journal of Organio Chemistry, 2015, 2015, 5089-5098.	01.2	26
11	A benzothiazole-based new fluorogenic chemosensor for the detection of CN ^{â^'} and its real-time application in environmental water samples and living cells. RSC Advances, 2022, 12, 8570-8577.	1.7	26
12	CuO–CuAl2O4 and d-glucose catalyzed synthesis of a family of excited state intramolecular proton transfer imidazo[1,2-a]pyridine analogues and their optical properties. Dyes and Pigments, 2015, 121, 88-98.	2.0	25
13	Development of paper-based chemosensor for the detection of mercury ions using mono- and tetra-sulfur bearing phenanthridines. New Journal of Chemistry, 2018, 42, 8530-8536.	1.4	25
14	Highly sensitive turn-off fluorescent detection of cyanide in aqueous medium using dicyanovinyl-substituted phenanthridine fluorophore. RSC Advances, 2020, 10, 11791-11799.	1.7	25
15	Highly emissive, naked-eye solvatochromic probe based on styryl tetrahydrodibenzo[a,i]phenanthridine for acidochromic applications. RSC Advances, 2016, 6, 58549-58560.	1.7	22
16	Facile synthesis of ZnAl ₂ O ₄ nanoparticles: efficient and reusable porous nano ZnAl ₂ O ₄ and copper supported on ZnAl ₂ O ₄ catalysts for one pot green synthesis of propargylamines and imidazo[1,2-a]pyridines by A ³ coupling reactions. RSC Advances, 2016, 6, 3117-3125.	1.7	22
17	Initiazof1, 2 apprinting by Assup 25(sup 200phing reactions, RSC Advances, 2010, 0, 9117-9125. Iodine catalyzed three component synthesis of 1-((2-hydroxy) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 T anticancer agents. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2510-2514.	ſd (naphtl 1.0	nalen-1-yl) (p 22
18	Inkjet-printed phosphorescent Iridium(III) complex based paper sensor for highly selective detection of Hg2+. Dyes and Pigments, 2019, 163, 176-182.	2.0	22

#	Article	IF	CITATIONS
19	Synthesis, crystal structure, and anticancer properties of cyclic monocarbonyl analogs of curcumin. Medicinal Chemistry Research, 2011, 20, 81-87.	1.1	21
20	Synthesis of green light emitting fused pyrazolinopiperidines - photophysical and electrochemical studies. RSC Advances, 2013, 3, 1243-1254.	1.7	21
21	Synthesis of Bi2Mo3O12 and Bi2â^'xRExMo3O12 nanorods (RE=Eu3+ and Pr3+ and x=0.07–0.3): Improved photocatalytic activity towards the degradation of Rhodamine B dye under visible light. Applied Catalysis A: General, 2016, 519, 34-47.	2.2	21
22	Computational Approaches to Develop Isoquinoline Based Antibiotics through DNA Gyrase Inhibition Mechanisms Unveiled through Antibacterial Evaluation and Molecular Docking. Molecular Informatics, 2018, 37, e1800048.	1.4	21
23	Highly sensitive naphthalimide based Schiff base for the fluorimetric detection of Fe ³⁺ . RSC Advances, 2021, 11, 11338-11346.	1.7	21
24	A new furan based fluorescent chemosensor for the recognition of Cr3+ ion and its application in real sample analysis. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 418, 113441.	2.0	21
25	Highly selective chemosensor for the detection of Ru3+ ion by fluorescent turn-on response and its bioimaging recognition in living cells. Sensors and Actuators B: Chemical, 2018, 267, 373-380.	4.0	20
26	Colorimetric Metal Sensing of Fe3+ and Cr3+ and Photophysical and Electrochemical Studies Based on Benzo[4,5]thiazolo[3,2-a]pyrimidine-3-carboxylate and Its Derivatives. Journal of Organic Chemistry, 2020, 85, 1871-1881.	1.7	20
27	A new sensitive "turn-on―fluorescent probe based on naphthalimide: Application in visual recognition of hydrogen sulfide in environmental samples and living cells. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 420, 113491.	2.0	19
28	Ammonium Acetate: An Efficient Reagent for the One-pot Synthesis of 5-Aryl-7,8,13,14-tetrahydrodibenzo[a,i] phenanthridines, 2,4-Diaryl-6,7-benzo-3-azabicyclo[3.3.1]nonan-9-ones and α,α'-Bis(substituted benzylidene)cycloalkanones. Bulletin of the Korean Chemical Society, 2009, 30, 2555-2558.	1.0	19
29	A chiral (S)-BINOL based fluorescent sensor for the recognition of Fe(III) and cascade discrimination of α-amino acids. Tetrahedron: Asymmetry, 2016, 27, 492-497.	1.8	18
30	Synthesis, photophysical and acidochromic properties of a series of tetrahydrodibenzo[a,i]phenanthridine chromophores. Dyes and Pigments, 2016, 130, 233-244.	2.0	18
31	A new fast-responding fluorimetric "turn-on―sensor based on benzothiazole-phenanthridine for the sensitive, selective, and reversible detection of Cu2+ in real water samples and its use in bio-imaging. Dyes and Pigments, 2022, 205, 110514.	2.0	18
32	Copper catalyzed CN bond formation/C–H activation: synthesis of aryl 4H-3,1-benzoxazin-4-ones. Tetrahedron Letters, 2015, 56, 203-205.	0.7	17
33	Enantioselective fluorescent sensing of chiral carboxylic acid by engaging boronic acid and BINOL. Sensors and Actuators B: Chemical, 2017, 244, 175-181.	4.0	17
34	Iminothiophenol Schiff base-based fluorescent probe for dual detection of Hg2+ and Cr3+ ions and its application in real sample analysis. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 425, 113663.	2.0	17
35	A phenanthridine-based probe for selective detection of hypochlorite ions. New Journal of Chemistry, 2022, 46, 6570-6576.	1.4	17
36	A sensitive and selective BINOL based ratiometric fluorescence sensor for the detection of cyanide ions. RSC Advances, 2021, 11, 15656-15662.	1.7	16

#	Article	IF	CITATIONS
37	Azine based fluorescent rapid "off-on" chemosensor for detecting Th4+ and Fe3+ ions and its real-time application. Dyes and Pigments, 2021, 196, 109755.	2.0	16
38	A highly sensitive naphthalimide based fluorescent "turn-on―sensor for H2S and its bio-imaging applications. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 427, 113802.	2.0	15
39	Statistical descriptors to measure the effectiveness of hydrogen bonding groups and an example of ether oxygen. CrystEngComm, 2011, 13, 5234.	1.3	13
40	Synthesis of benzofused 1,4-azaborinols via [4 + 2] annulation strategy and its application in indole synthesis. RSC Advances, 2015, 5, 37716-37720.	1.7	13
41	A novel, facile, rapid, solvent free protocol for the one pot green synthesis of chromeno[2,3-d]pyrimidines using reusable nano ZnAl ₂ O ₄ – a NOSE approach and photophysical studies. RSC Advances, 2015, 5, 6578-6587.	1.7	13
42	Enantioselective recognition of unmodified amino acids by ligand-displacement assays with in situ generated 1:1 Cu(II)- BINOL imidazole complex. Sensors and Actuators B: Chemical, 2017, 250, 244-249.	4.0	13
43	SnCl2-catalyzed synthesis of dihydro-5H-benzo[f]pyrazolo[3,4-b]quinoline and dihydroindeno[2,1-b]pyrazolo[4,3-e]pyridine with high fluorescence and their photophysical properties. New Journal of Chemistry, 2018, 42, 860-871.	1.4	13
44	Study of Microhardness and Its Related Physical Constants of Ferroelectric Glycine Phosphite (GPI) Single Crystals. Ferroelectrics, Letters Section, 2010, 37, 23-29.	0.4	12
45	Oneâ€Pot Synthesis and Photophysical Studies of Styrylâ€Based Benzo[<i>f</i>]pyrazolo[3,4â€ <i>b</i>]quinoline and Indeno[2,1â€ <i>b</i>]pyrazolo[4,3â€ <i>e</i>]pyridines. European Journal of Organic Chemistry, 2018, 2018, 6204-6216.	1.2	12
46	PFOM fillers embedded PVDF/cellulose dual-layered membranes with hydrophobic–hydrophilic channels for desalination <i>via</i> direct contact membrane distillation process. RSC Advances, 2019, 9, 41462-41474.	1.7	12
47	Phenanthridineâ€Based Donor/Acceptor Fluorescent Dyes: Synthesis, Photophysical Properties and Fluorometric Sensing of Biogenic Primary Amines. ChemistrySelect, 2021, 6, 858-864.	0.7	12
48	Efficient iodine catalyzed chemoselective synthesis of aminals—an access to N,N-acetals by the addition of lactams to N-acyl imines. Tetrahedron Letters, 2013, 54, 6758-6763.	0.7	11
49	Phenanthridine-based fluorescence sensor for the "off-on―determination of thorium ion and its bio-imaging applications. Dyes and Pigments, 2022, 197, 109826.	2.0	11
50	Synthesis, spectral characterization and crystal structure of a new precursor [(CH3COCHCOCH3)2Zr{C6H4(N=CHC6H4O)2}] for nano-zirconia: an investigation on the wettability of polyvinylidene fluoride–nano-zirconia composite material. Journal of Sol-Gel Science and Technology, 2015, 76, 195-203.	1.1	10
51	Molecular Substantiation and Drug Efficacy of Relatively High Molecular Weight Sâ€BINOLs; Appraised as Breast Cancer Medication and Pl3Kinase Inhibitors. Journal of Heterocyclic Chemistry, 2018, 55, 1339-1345.	1.4	10
52	Recognition of Hg2+ ion in an organic semi-aqueous medium by a new napthalimide based fluorescent probe and its bioimaging applications. Inorganic Chemistry Communication, 2022, 143, 109735.	1.8	10
53	Dual Behavior of Ammonium Acetate for the Synthesis of Diverse Symmetrical/Unsymmetrical Bis[1,3]oxazines Possessing Anticancer Activity. Synthetic Communications, 2015, 45, 2227-2239.	1.1	9
54	Synthesis of T-shaped Oxazolonaphthoimidazo[1,2- <i>a</i>]pyridines using Lactic Acid as Bio-based Green Solvent: An Insight into Photophysical Studies. ChemistrySelect, 2016, 1, 2900-2908.	0.7	9

#	Article	IF	CITATIONS
55	Direct oxidative cascade cyclisation of 2-aminobenzoic acid and arylaldehydes to aryl 4H-3,1-benzoxazin-4-ones with oxone. Tetrahedron Letters, 2017, 58, 520-523.	0.7	9
56	Naphthalimideâ€Based Chiral Fluorescence Sensor Employing (S)â€BINOL Unit for Highly Enantioselective Recognition of αâ€Amino Alcohols with Opposite Chiral Selectivity. ChemistrySelect, 2018, 3, 3111-3117.	0.7	9
57	A multisensing ratiometric fluorescent sensor for recognition of Al3+, Th4+ and picric acid. Inorganic Chemistry Communication, 2021, 132, 108825.	1.8	9
58	Direct anti and regio-specific aldol reactions of cyclododecanone catalyzed by alkali metal hydroxides: implications for supramolecular helical design. New Journal of Chemistry, 2012, 36, 2292.	1.4	8
59	Photophysical studies of donor, acceptor substituted tetrahydrodibenzo[a,i]phenanthridines. Dyes and Pigments, 2016, 134, 409-418.	2.0	8
60	(borophenanthridines). Dyes and Pigments, 2017, 137, 182-190.	2.0	8
61	A new imidazole based phenanthridine probe for ratiometric fluorescence monitoring of methanol in biodiesel. New Journal of Chemistry, 2021, 45, 6033-6041.	1.4	8
62	Green Trends in Mannich Reaction. Mini-Reviews in Organic Chemistry, 2014, 11, 97-115.	0.6	8
63	A Pyrazolo Imineâ€based Colorimetric and Turnâ€on Fluorescent Sensor Probe for Determination of Hg ²⁺ Ion and its Application in Test Paper Strips. Photochemistry and Photobiology, 2022, 98, 843-855.	1.3	8
64	A mild and efficient one-pot three-component synthesis of anti-β-amino-carbonyl compounds catalyzed by NH4OAc and their anticancer activities. Medicinal Chemistry Research, 2014, 23, 5086-5101.	1.1	7
65	Twisted pyrene with perfect hetero atomic cavity optical sensor for Hg22+ and Pb2+. Inorganic Chemistry Communication, 2020, 121, 108187.	1.8	7
66	Cooperative C–H…N and C–H…π bonded molecular dimers of 5-aryl-7,8,13,14-tetrahydro-dibenzo[a,i]phenanthridine. Journal of Molecular Structure, 2010, 963, 45-49.	1.8	6
67	Synthesis, Crystal Growth, Structural, Dielectric and Ferroelectric Properties of N-Acetyl Glycine Phosphite (AGPI) Single Crystals. Ferroelectrics, 2011, 413, 291-300.	0.3	6
68	Fused pyrazole-phenanthridine based dyads: synthesis, photo-physical and theoretical studies, and live cell pH imaging. RSC Advances, 2019, 9, 38687-38696.	1.7	6
69	A simple quinazolinone-isophorone based colorimetric chemosensor for the reversible detection of copper (II) and its application in real samples. Journal of Molecular Structure, 2022, 1257, 132633.	1.8	6
70	Azabicyclo[3.3.1]nonanone: a case when weak interactions are preferred over strong hydrogen bonds. Structural Chemistry, 2010, 21, 909-914.	1.0	5
71	Synthesis and Molecular Structure of New Macro Acyclic Mannich Derivatives: Symmetrical and Unsymmetrical 2-[(E)-(Benzylideneamino)(aryl)methyl]cyclododecanone. Synthetic Communications, 2012, 42, 3429-3440.	1.1	5
72	A green approach for the one-pot multi-component synthesis of N-substituted γ, Î′ and ε-lactams involving C–N bond formation catalyzed by FeCl3. RSC Advances, 2013, 3, 23035.	1.7	5

#	Article	IF	CITATIONS
73	Domino condensation–heterocyclisation reactions: iodine catalyzed four component synthesis of 1,3-thiazine. RSC Advances, 2014, 4, 8808.	1.7	5
74	Synthesis and biological evaluation of adamantane-based aminophenols as a novel class of antiplasmodial agents. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 952-955.	1.0	5
75	Tuning the Electronic Properties of 2-Cyano-3-phenylacrylamide Derivatives. Journal of Organic Chemistry, 2015, 80, 12351-12358.	1.7	5
76	Design, synthesis and cholinesterase inhibitory evaluation study of fluorescent N-benzylpiperidine-4-one derivatives. Medicinal Chemistry Research, 2016, 25, 1705-1715.	1.1	5
77	Fluorescent aluminum chelate complexes as modified precursors for nano-structured alumina. Journal of Coordination Chemistry, 2017, 70, 983-996.	0.8	5
78	Human-eyes-friendly white electroluminescence from solution-processable hybrid OLEDs exploiting new iridium (III) complex containing benzoimidazophenanthridine ligand. Dyes and Pigments, 2020, 174, 108068.	2.0	5
79	A simple and optically responsive chemosensor for the detection of Al3+ and Cr3+: In live cells and real sample analysis. Inorganic Chemistry Communication, 2020, 122, 108289.	1.8	5
80	A Highly Selective and Sensitive Colorimetric Chemosensor for the Detection of Hydrogen Sulfide: A Realâ€ŧime Application in Multiple platforms. Photochemistry and Photobiology, 2022, 98, 141-149.	1.3	5
81	Fluorescent chemosensors for Hg ²⁺ ions based on a pyridine-attached phenanthridine probe. New Journal of Chemistry, 2021, 45, 17667-17673.	1.4	5
82	Kinetics and mechanism of oxidation of S-phenylthioacetic acids by Ce(IV). Tetrahedron, 1994, 50, 13731-13738.	1.0	4
83	Structural and Mechanical Studies of Semi-Organic NLO Material: Zinc Thiourea Chloride. Materials and Manufacturing Processes, 2012, 27, 53-57.	2.7	4
84	Synthesis, structural, and ε-caprolactone polymerization studies of heteroleptic derivatives of aluminum(III). Journal of Coordination Chemistry, 2015, 68, 2480-2491.	0.8	4
85	Hepta-coordinated heteroleptic derivatives of zirconium(IV): Synthesis, structural characterization and ring opening polymerization of ε-caprolactone. Polyhedron, 2016, 107, 163-171.	1.0	4
86	Electroluminescence of iridium(III) complexes containing F or CF3 substituents. Synthetic Metals, 2021, 273, 116673.	2.1	4
87	Eco-efficient, Chemoselective, and Rapid Access to Aminals from Lactams Using Recyclable Silica-supported FeCl3 Catalyst in Green Solvent. Chemistry Letters, 2014, 43, 1631-1633.	0.7	3
88	Temperature-controlled Mukaiyama aldol reaction of cyclododecanone (CDD) with aromatic aldehydes promoted by TMSCl via the (TMS) ₃ Si intermediate generated in situ. New Journal of Chemistry, 2016, 40, 3833-3842.	1.4	3
89	Phenanthridine based rapid "turn-on―fluorescent sensor for selective detection of Th4+ ion and its real-time application. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120403.	2.0	3
90	(3E,5E)-1-Benzyl-3,5-dibenzylidenepiperidin-4-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2775-o2775.	0.2	3

#	Article	IF	CITATIONS
91	{2-Methylidene-3-[(phenylsulfanyl)methyl]but-3-en-1-ylsulfanyl}benzene: flip-flop disorder. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2504-o2505.	0.2	2
92	(3E,5E)-1-Benzyl-3,5-bis(2-fluorobenzylidene)piperidin-4-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2667-o2667.	0.2	2
93	Cyclododecanone as a recyclable protecting group for the synthesis of highly functionalized 3-amino-2-thiohydantoins from conventional starting materials. RSC Advances, 2014, 4, 8498.	1.7	2
94	Phenanthridine based fluorescent probe for Th4+ ion chemosensor. Journal of Photochemistry and Photobiology A: Chemistry, 2022, , 113952.	2.0	2
95	Kinetics and mechanism of oxidation of some para-, meta-, and ortho-substituted ethyl S-phenylmercaptoacetates by chloramine-B(CAB). International Journal of Chemical Kinetics, 1992, 24, 953-961.	1.0	1
96	Domino Reaction for the Synthesis of Highly Functionalized Triazatricyclo[6.2.2.01,6]dodecane. Synthetic Communications, 2015, 45, 750-757.	1.1	1
97	Synthesis of highly functionalized strained bicyclic dilactam derivatives. Synthetic Communications, 2018, 48, 1671-1677.	1.1	1
98	Rational Synthesis of Tetrahydrodibenzophenanthridine and Phenanthroimidazole as Efficient Blue Emitters and their Applications. European Journal of Organic Chemistry, 2020, 2020, 834-844.	1.2	1
99	(3E,5E)-3,5-Bis(4-allyloxybenzylidene)-1-benzylpiperidin-4-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o3062-o3062.	0.2	1
100	(7E)-5-Benzyl-7-(2-chlorobenzylidene)-3-(2-chlorophenyl)-2-phenyl-3,3a,4,5,6,7-hexahydro-2H-pyrazolo[4,3-c]pyric Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1734-o1734.	line. 0.2	0
101	3-(7,8,13,14-Tetrahydrodibenzo[a,i]phenanthridin-5-yl)benzene-1,2-diol. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1753-o1753.	0.2	0