

Umamahesh Balijapalli

List of Publications by Year in descending order

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41
papers

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docs citations

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1265
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8477-8482.	13.8	130
2	Tetrabenzo[<i>a</i> , <i>c</i>]phenazine Backbone for Highly Efficient Orange-Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19364-19373.	13.8	67
3	Surfactant- and template-free hydrothermal assembly of Cu ₂ O visible light photocatalysts for trimethoprim degradation. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119741.	20.2	60
4	Investigating HOMO Energy Levels of Terminal Emitters for Realizing High-Brightness and Stable TADF-Assisted Fluorescence Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021, 7, 2001090.	5.1	55
5	Understanding the Degradation of Spiro-OMeTAD-Based Perovskite Solar Cells at High Temperature. <i>Solar Rrl</i> , 2020, 4, 2000305.	5.8	53
6	Suppression of external quantum efficiency rolloff in organic light emitting diodes by scavenging triplet excitons. <i>Nature Communications</i> , 2020, 11, 4926.	12.8	46
7	A colorimetric and ratiometric fluorescent sensor for biogenic primary amines based on dicyanovinyl substituted phenanthridine conjugated probe. <i>Dyes and Pigments</i> , 2020, 178, 108346.	3.7	43
8	LaCl ₃ ·7H ₂ O as an Efficient Catalyst for One-Pot Synthesis of Highly Functionalized Piperidines via Multi-component Organic Reactions. <i>Catalysis Letters</i> , 2012, 142, 895-900.	2.6	42
9	Rapid one pot synthesis of xanthen derivatives by an efficient and reusable nano-ZnAl ₂ O ₄ - An insight into a new process. <i>Journal of Molecular Catalysis A</i> , 2014, 391, 198-207.	4.8	42
10	Tetrazole iridium(III) complexes as a class of phosphorescent emitters for high-efficiency OLEDs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10053-10060.	5.5	38
11	(Tetrahydrodibenzo[<i>a</i> , <i>i</i>]phenanthridin-5-yl)phenol as a Fluorescent Probe for the Detection of Aniline. <i>Journal of Organic Chemistry</i> , 2019, 84, 11513-11523.	3.2	32
12	Metal-Free, One-Pot, Rapid Synthesis of Tetrahydropyridines Using Acetic Acid as Solvent and Catalyst at Room Temperature. <i>Synthetic Communications</i> , 2014, 44, 943-953.	2.1	28
13	Synthesis and Optical Properties of a Series of Green-Light-Emitting 2-(4-Phenylquinolin-2-yl)phenol-BF ₂ Complexes (Boroquinols). <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5089-5098.		26
14	An Organic Laser Dye having a Small Singlet-Triplet Energy Gap Makes the Selection of a Host Material Easier. <i>Advanced Functional Materials</i> , 2020, 30, 2001078.	14.9	26
15	CuO-CuAl ₂ O ₄ and d-glucose catalyzed synthesis of a family of excited state intramolecular proton transfer imidazo[1,2- <i>a</i>]pyridine analogues and their optical properties. <i>Dyes and Pigments</i> , 2015, 121, 88-98.	3.7	25
16	Development of paper-based chemosensor for the detection of mercury ions using mono- and tetra-sulfur bearing phenanthridines. <i>New Journal of Chemistry</i> , 2018, 42, 8530-8536.	2.8	25
17	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie</i> , 2021, 133, 8558-8563.	2.0	23
18	Highly emissive, naked-eye solvatochromic probe based on styryl tetrahydrodibenzo[<i>a</i> , <i>i</i>]phenanthridine for acidochromic applications. <i>RSC Advances</i> , 2016, 6, 58549-58560.	3.6	22

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19	Inkjet-printed phosphorescent Iridium(III) complex based paper sensor for highly selective detection of Hg ²⁺ . <i>Dyes and Pigments</i> , 2019, 163, 176-182.	3.7	22
20	Synthesis of green light emitting fused pyrazolinopiperidines - photophysical and electrochemical studies. <i>RSC Advances</i> , 2013, 3, 1243-1254.	3.6	21
21	Synthesis, photophysical and acidochromic properties of a series of tetrahydrodibenzo[a,i]phenanthridine chromophores. <i>Dyes and Pigments</i> , 2016, 130, 233-244.	3.7	18
22	Utilization of Multi-Heterodonors in Thermally Activated Delayed Fluorescence Molecules and Their High Performance Bluish-Green Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9498-9506.	8.0	18
23	Enantioselective fluorescent sensing of chiral carboxylic acid by engaging boronic acid and BINOL. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 175-181.	7.8	17
24	Electron Affinity Substituent in 2,6-Dicarbonitrile Diphenylphosphinine Towards High Quality Organic Lasing and Electroluminescence under High Current Injection. <i>Advanced Functional Materials</i> , 2021, 31, 2104529.	14.9	14
25	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. <i>RSC Advances</i> , 2015, 5, 6578-6587.	3.6	13
26	SnCl ₂ -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. <i>New Journal of Chemistry</i> , 2018, 42, 860-871.	2.8	13
27	One-Pot Synthesis and Photophysical Studies of Styryl-Based Benzo[<i>f</i>]pyrazolo[3,4- <i>b</i>]quinoline and Indeno[2,1- <i>b</i>]pyrazolo[4,3- <i>e</i>]pyridines. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6204-6216.	2.4	12
28	2,6-Dicarbonitrile Diphenylphosphinine (DCNP) A Robust Conjugated Building Block for Multi-Functional Dyes Exhibiting Tunable Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2021, 9, 2101122.	7.3	11
29	Synthesis of T-shaped Oxazolophthoimidazo[1,2- <i>a</i>]pyridines using Lactic Acid as Bio-based Green Solvent: An Insight into Photophysical Studies. <i>ChemistrySelect</i> , 2016, 1, 2900-2908.	1.5	9
30	Direct anti and regio-specific aldol reactions of cyclododecanone catalyzed by alkali metal hydroxides: implications for supramolecular helical design. <i>New Journal of Chemistry</i> , 2012, 36, 2292.	2.8	8
31	Photophysical studies of donor, acceptor substituted tetrahydrodibenzo[a,i]phenanthridines. <i>Dyes and Pigments</i> , 2016, 134, 409-418.	3.7	8
32	(borophenanthridines). <i>Dyes and Pigments</i> , 2017, 137, 182-190.	3.7	8
33	Sub-Microsecond TADF Emission in D- π -A Emitters. <i>Chemistry Letters</i> , 2020, 49, 932-935.	1.3	8
34	Human-eyes-friendly white electroluminescence from solution-processable hybrid OLEDs exploiting new iridium (III) complex containing benzoimidazophenanthridine ligand. <i>Dyes and Pigments</i> , 2020, 174, 108068.	3.7	5
35	Electroluminescence of iridium(III) complexes containing F or CF ₃ substituents. <i>Synthetic Metals</i> , 2021, 273, 116673.	3.9	4
36	Tetrabenzo[<i>a</i> , <i>c</i>]phenazine Backbone for Highly Efficient Orange-Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. <i>Angewandte Chemie</i> , 2021, 133, 19513-19522.	2.0	4

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37	Eco-efficient, Chemoselective, and Rapid Access to Aminals from Lactams Using Recyclable Silica-supported FeCl ₃ Catalyst in Green Solvent. <i>Chemistry Letters</i> , 2014, 43, 1631-1633.	1.3	3
38	An insight into the photophysical properties of amide hydrogen bonded N-(benzo[d]thiazol-2-yl) acetamide crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 572-577.	3.9	2
39	Rational Synthesis of Tetrahydrodibenzophenanthridine and Phenanthroimidazole as Efficient Blue Emitters and their Applications. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 834-844.	2.4	1
40	Organic Laser Dyes: An Organic Laser Dye having a Small Singlet-Triplet Energy Gap Makes the Selection of a Host Material Easier (<i>Adv. Funct. Mater.</i> 30/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070204.	14.9	0
41	Continuous-wave laser operation based on triplet management of guest-host matrix. , 2020, , .		0