

Umamahesh Balijapalli

List of Publications by Year in descending order

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41
papers

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394421

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Electroluminescence of iridium(III) complexes containing F or CF ₃ substituents. <i>Synthetic Metals</i> , 2021, 273, 116673.	3.9	4
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	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie</i> , 2021, 133, 8558-8563.	2.0	23
6	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
7	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
8	Electron-Affinity Substituent in 2,6-Dicyanonitrile Diphenylphosphinine Towards High-Quality Organic Lasing and Electroluminescence under High Current Injection. <i>Advanced Functional Materials</i> , 2021, 31, 2104529.	14.9	14
9	2,6-Dicyanonitrile 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
10	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
11	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
12	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
13	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
14	Organic Laser Dyes: An Organic Laser Dye having a Small Singlet-Triplet Energy Gap Makes the Selection of a Host Material Easier (Adv. Funct. Mater. 30/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070204.	14.9	0
15	Understanding the Degradation of Spiro-OMeTAD-Based Perovskite Solar Cells at High Temperature. <i>Solar Rrl</i> , 2020, 4, 2000305.	5.8	53
16	Sub-Microsecond TADF Emission in D-A-E Emitters. <i>Chemistry Letters</i> , 2020, 49, 932-935.	1.3	8
17	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
18	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

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19	Continuous-wave laser operation based on triplet management of guest-host matrix. , 2020, , .		0
20	(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.	3.2	32
21	Inkjet-printed phosphorescent Iridium(III) complex based paper sensor for highly selective detection of Hg ²⁺ . Dyes and Pigments, 2019, 163, 176-182.	3.7	22
22	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.	2.8	25
23	SnCl ₂ -catalyzed synthesis of dihydro-5H-benzo[<i>f</i>]pyrazolo[3,4- <i>b</i>]quinoline and dihydroindeno[2,1- <i>b</i>]pyrazolo[4,3- <i>e</i>]pyridine with high fluorescence and their photophysical properties. New Journal of Chemistry, 2018, 42, 860-871.	2.8	13
24	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. European Journal of Organic Chemistry, 2018, 2018, 6204-6216.	2.4	12
25	Enantioselective fluorescent sensing of chiral carboxylic acid by engaging boronic acid and BINOL. Sensors and Actuators B: Chemical, 2017, 244, 175-181.	7.8	17
26	(borophenanthridines). Dyes and Pigments, 2017, 137, 182-190.	3.7	8
27	An insight into the photophysical properties of amide hydrogen bonded N-(benzo[<i>d</i>]thiazol-2-yl)acetamide crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 572-577.	3.9	2
28	Tetrazole iridium(III) complexes as a class of phosphorescent emitters for high-efficiency OLEDs. Journal of Materials Chemistry C, 2016, 4, 10053-10060.	5.5	38
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. ChemistrySelect, 2016, 1, 2900-2908.	1.5	9
30	Photophysical studies of donor, acceptor substituted tetrahydrodibenzo[<i>a</i> , <i>i</i>]phenanthridines. Dyes and Pigments, 2016, 134, 409-418.	3.7	8
31	Highly emissive, naked-eye solvatochromic probe based on styryl tetrahydrodibenzo[<i>a</i> , <i>i</i>]phenanthridine for acidochromic applications. RSC Advances, 2016, 6, 58549-58560.	3.6	22
32	Synthesis, photophysical and acidochromic properties of a series of tetrahydrodibenzo[<i>a</i> , <i>i</i>]phenanthridine chromophores. Dyes and Pigments, 2016, 130, 233-244.	3.7	18
33	Synthesis and Optical Properties of a Series of Green-light-emitting 2-(4-phenylquinolin-2-yl)phenol-BF ₃ Complexes (Boroquinols). European Journal of Organic Chemistry, 2015, 2015, 5089-5098.		26
34	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. Dyes and Pigments, 2015, 121, 88-98.	3.7	25
35	A novel, facile, rapid, solvent free protocol for the one pot green synthesis of chromeno[2,3- <i>d</i>]pyrimidines using reusable nano ZnAl ₂ O ₄ a NOSE approach and photophysical studies. RSC Advances, 2015, 5, 6578-6587.	3.6	13
36	Eco-efficient, Chemoselective, and Rapid Access to Aminals from Lactams Using Recyclable Silica-supported FeCl ₃ Catalyst in Green Solvent. Chemistry Letters, 2014, 43, 1631-1633.	1.3	3

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37	Rapid one pot synthesis of xanthene 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
38	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
39	Synthesis of green light emitting fused pyrazolinopiperidines - photophysical and electrochemical studies. <i>RSC Advances</i> , 2013, 3, 1243-1254.	3.6	21
40	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
41	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