

Pachaiyappan Rajamalli

List of Publications by Year in descending order

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218677

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docs citations

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#	ARTICLE	IF	CITATIONS
1	A New Molecular Design Based on Thermally Activated Delayed Fluorescence for Highly Efficient Organic Light Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2016, 138, 628-634.	13.7	365
2	New Molecular Design Concurrently Providing Superior Pure Blue, Thermally Activated Delayed Fluorescence and Optical Out-Coupling Efficiencies. <i>Journal of the American Chemical Society</i> , 2017, 139, 10948-10951.	13.7	361
3	Improving Processability and Efficiency of Resonant TADF Emitters: A Design Strategy. <i>Advanced Optical Materials</i> , 2020, 8, 1901627.	7.3	182
4	Low Molecular Weight Fluorescent Organogel for Fluoride Ion Detection. <i>Organic Letters</i> , 2011, 13, 3714-3717.	4.6	160
5	Diastereoselective [3+2] Annulation of Aromatic/Vinylic Amides with Bicyclic Alkenes through Cobalt-Catalyzed C-H Activation and Intramolecular Nucleophilic Addition. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4308-4311.	13.8	148
6	Indolocarbazole Derivative as a Universal Host Material for RGB and White Phosphorescent OLEDs. <i>Advanced Functional Materials</i> , 2015, 25, 5548-5556.	14.9	111
7	A Method for Reducing the Singlet-Triplet Energy Gaps of TADF Materials for Improving the Blue OLED Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27026-27034.	8.0	87
8	Rhodium(III)-Catalyzed [4+1] Annulation of Aromatic and Vinylic Carboxylic Acids with Allenes: An Efficient Method Towards Vinyl-Substituted Phthalides and 2-Furanones. <i>Chemistry - A European Journal</i> , 2015, 21, 9198-9203.	3.3	81
9	Highly efficient orange and deep-red organic light emitting diodes with long operational lifetimes using carbazole-quinoline based bipolar host materials. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6183-6191.	5.5	79
10	A high triplet energy, high thermal stability oxadiazole derivative as the electron transporter for highly efficient red, green and blue phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1491-1496.	5.5	61
11	Use of Pyrimidine and Pyrazine Bridges as a Design Strategy To Improve the Performance of Thermally Activated Delayed Fluorescence Organic Light Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45171-45179.	8.0	58
12	A thermally activated delayed blue fluorescent emitter with reversible externally tunable emission. <i>Journal of Materials Chemistry C</i> , 2016, 4, 900-904.	5.5	52
13	A Universal Electron-Transporting/Exciton-Blocking Material for Blue, Green, and Red Phosphorescent Organic Light-Emitting Diodes (OLEDs). <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10466-10474.	8.0	51
14	Thermally activated delayed fluorescence emitters with a m,m-di-tert-butyl-carbazolyl benzoylpyridine core achieving extremely high blue electroluminescence efficiencies. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2919-2926.	5.5	48
15	Bromo induced reversible distinct color switching of a structurally simple donor-acceptor molecule by vapo, piezo and thermal stimuli. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3329-3335.	5.5	47
16	Non-amphiphilic pyrene cored poly(aryl ether) dendron based gels: tunable morphology, unusual solvent effects on the emission and fluoride ion detection by the self-assembled superstructures. <i>Soft Matter</i> , 2012, 8, 8896.	2.7	44
17	Tunable Morphology and Mesophase Formation by Naphthalene-Containing Poly(aryl ether) Dendron-Based Low-Molecular-Weight Fluorescent Gels. <i>Langmuir</i> , 2013, 29, 1609-1617.	3.5	42
18	Metal induced gelation from pyridine cored poly(aryl ether) dendrons with in situ synthesis and stabilization of hybrid hydrogel composites. <i>Chemical Communications</i> , 2014, 50, 11023-11025.	4.1	41

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19	Palladium-Catalyzed Dehydrogenative \hat{I}^2 -Arylation of Simple Saturated Carbonyls by Aryl Halides. <i>ACS Catalysis</i> , 2014, 4, 4485-4489.	11.2	40
20	Enhanced thermally activated delayed fluorescence through bridge modification in sulfone-based emitters employed in deep blue organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6664-6671.	5.5	39
21	Diastereoselective [3+2] Annulation of Aromatic/Vinylc Amides with Bicyclic Alkenes through Cobalt-Catalyzed C-H Activation and Intramolecular Nucleophilic Addition. <i>Angewandte Chemie</i> , 2016, 128, 4380-4383.	2.0	36
22	Supramolecular design for two-component hydrogels with intrinsic emission in the visible region. <i>Chemical Communications</i> , 2013, 49, 1744.	4.1	32
23	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12066-12073.	13.8	32
24	Quinolinylmethanone-Based Thermally Activated Delayed Fluorescence Emitters and the Application in OLEDs: Effect of Intramolecular H-Bonding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17128-17133.	8.0	30
25	Luminescent micro and nanogel formation from AB3 type poly(aryl ether) dendron derivatives without conventional multi-interactive gelation motifs. <i>New Journal of Chemistry</i> , 2011, 35, 1541.	2.8	27
26	Glucose-cored poly(aryl ether) dendron based low molecular weight gels: pH controlled morphology and hybrid hydrogel formation. <i>Chemical Communications</i> , 2013, 49, 6758.	4.1	26
27	Photoluminescence and electrochemiluminescence of thermally activated delayed fluorescence (TADF) emitters containing diphenylphosphine chalcogenide-substituted carbazole donors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4646-4667.	5.5	20
28	Synthesis of Substituted Quinolines by Iron(III)-Catalyzed Three-Component Coupling Reaction of Aldehydes, Amines, and Styrenes. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 303-308.	2.7	18
29	Bipyridine-Containing Host Materials for High Performance Yellow Thermally Activated Delayed Fluorescence-Based Organic Light Emitting Diodes with Very Low Efficiency Roll-Off. <i>Advanced Optical Materials</i> , 2020, 8, 1901283.	7.3	18
30	Planar and Rigid Pyrazine-Based TADF Emitter for Deep Blue Bright Organic Light-Emitting Diodes. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 2285-2293.	2.4	17
31	Palladium-Catalyzed C-H Activation and Cyclization of Anilides with 2-Iodoacetates and 2-Iodobenzoates: An Efficient Method toward Oxindoles and Phenanthridones. <i>Synthesis</i> , 2016, 48, 1872-1879.	2.3	15
32	Molecular Design Strategy for a Two-Component Gel Based on a Thermally Activated Delayed Fluorescence Emitter. <i>ACS Applied Energy Materials</i> , 2018, 1, 649-654.	5.1	15
33	A deep blue thermally activated delayed fluorescence emitter: balance between charge transfer and color purity. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4886-4893.	5.5	12
34	Pyridine-functionalized carbazole donor and benzophenone acceptor design for thermally activated delayed fluorescence emitters in blue organic light-emitting diodes. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	1.3	10
35	A concise synthesis of quinolinium, and biquinolinium salts and biquinolines from benzylic azides and alkenes promoted by copper species. <i>RSC Advances</i> , 2016, 6, 63390-63397.	3.6	9
36	Highly Fluorescent Emitters Based on Triphenylamine-Carbazole-Triazine (DACA) System: Effect of Extended Conjugation on Singlet-Triplet Energy Gap. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 1277-1285.	2.7	9

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37	Ultrathin non-doped thermally activated delayed fluorescence emitting layer for highly efficient OLEDs. <i>Chemical Communications</i> , 2021, 57, 13728-13731.	4.1	7
38	Substitution Effects on a New Pyridylbenzimidazole Acceptor for Thermally Activated Delayed Fluorescence and Their Use in Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100846.	7.3	6
39	Multichromophore Molecular Design for Thermally Activated Delayed-Fluorescence Emitters with Near-Unity Photoluminescence Quantum Yields. <i>Journal of Organic Chemistry</i> , 2021, 86, 11531-11544.	3.2	5
40	High performance non-doped green organic light emitting diodes <i>via</i> delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15583-15590.	5.5	5
41	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter**. <i>Angewandte Chemie</i> , 2021, 133, 12173-12180.	2.0	4
42	Diastereoselective [3+2] Annulation of Aromatic/Vinylidic Amides with Bicyclic Alkenes through Cobalt-Catalyzed C-H Activation and Intramolecular Nucleophilic Addition (<i>Angew. Chem.</i>)	0.0	0
43	Marigold Flower-Like Assemblies of Phosphorescent Iridium-Silver Coordination Polymers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800501.	3.9	2