

Przemyslaw Data

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88

papers

3,210

citations

27

h-index

55

g-index

104

ext. papers

3,879

ext. citations

5.7

avg, IF

5.52

L-index

#	Paper	IF	Citations
88	The Role of Local Triplet Excited States and D-A Relative Orientation in Thermally Activated Delayed Fluorescence: Photophysics and Devices. <i>Advanced Science</i> , 2016 , 3, 1600080	13.6	304
87	Thermally activated delayed fluorescent phenothiazine-dibenzo[,]phenazine-phenothiazine triads exhibiting tricolor-changing mechanochromic luminescence. <i>Chemical Science</i> , 2017 , 8, 2677-2686	9.4	245
86	Highly Efficient TADF OLEDs: How the Emitter Host Interaction Controls Both the Excited State Species and Electrical Properties of the Devices to Achieve Near 100% Triplet Harvesting and High Efficiency. <i>Advanced Functional Materials</i> , 2014 , 24, 6178-6186	15.6	232
85	Dibenzo[a,j]phenazine-Cored Donor-Acceptor-Donor Compounds as Green-to-Red/NIR Thermally Activated Delayed Fluorescence Organic Light Emitters. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5739-44	16.4	224
84	Rational Design of TADF Polymers Using a Donor-Acceptor Monomer with Enhanced TADF Efficiency Induced by the Energy Alignment of Charge Transfer and Local Triplet Excited States. <i>Advanced Optical Materials</i> , 2016 , 4, 597-607	8.1	185
83	Regio- and conformational isomerization critical to design of efficient thermally-activated delayed fluorescence emitters. <i>Nature Communications</i> , 2017 , 8, 14987	17.4	179
82	The interplay of thermally activated delayed fluorescence (TADF) and room temperature organic phosphorescence in sterically-constrained donor-acceptor charge-transfer molecules. <i>Chemical Communications</i> , 2016 , 52, 2612-5	5.8	171
81	Engineering the singlet-triplet energy splitting in a TADF molecule. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3815-3824	7.1	143
80	Recent Advancements in and the Future of Organic Emitters: TADF- and RTP-Active Multifunctional Organic Materials. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1613-1636	4.5	86
79	Conformationally-flexible and moderately electron-donating units-installed D-A-D triad enabling multicolor-changing mechanochromic luminescence, TADF and room-temperature phosphorescence. <i>Chemical Communications</i> , 2018 , 54, 6847-6850	5.8	67
78	The contributions of molecular vibrations and higher triplet levels to the intersystem crossing mechanism in metal-free organic emitters. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6269-6280	7.1	65
77	Exciplex Enhancement as a Tool to Increase OLED Device Efficiency. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2070-2078	3.8	64
76	Thermally Activated Delayed Fluorescent Donor-Acceptor-Donor-Acceptor π -Conjugated Macrocycle for Organic Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1482-1491	16.4	63
75	Dibenzo[a,j]phenazine-Cored Donor-Acceptor-Donor Compounds as Green-to-Red/NIR Thermally Activated Delayed Fluorescence Organic Light Emitters. <i>Angewandte Chemie</i> , 2016 , 128, 5833-5838	3.6	58
74	Realizing 20% External Quantum Efficiency in Electroluminescence with Efficient Thermally Activated Delayed Fluorescence from an Exciplex. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13460-13471	8.5	54
73	Thermally activated delayed fluorescence vs. room temperature phosphorescence by conformation control of organic single molecules. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6616-6621	7.1	46
72	Unusual properties of electropolymerized 2,7- and 3,6- carbazole derivatives. <i>Electrochimica Acta</i> , 2014 , 128, 430-438	6.7	44

71	Glass-Forming Carbazolyl and Phenothiazinyl Tetra Substituted Pyrene Derivatives: Photophysical, Electrochemical, and Photoelectrical Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15878-15887 ^{3.8}	3.8	43
70	Thermally activated delayed fluorescence with a narrow emission spectrum and organic room temperature phosphorescence by controlling spin-orbit coupling and phosphorescence lifetime of metal-free organic molecules. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5434-5443	7.1	38
69	Electrochemical and spectroelectrochemical comparison of alternated monomers and their copolymers based on carbazole and thiophene derivatives. <i>Electrochimica Acta</i> , 2014 , 122, 118-129	6.7	36
68	Moving Beyond Boron-Based Substituents To Achieve Phosphorescence in Tellurophenes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12124-12134	9.5	35
67	Glass forming donor-substituted s-triazines: Photophysical and electrochemical properties. <i>Dyes and Pigments</i> , 2013 , 97, 412-422	4.6	34
66	The influence of molecular geometry on the efficiency of thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6672-6684	7.1	33
65	Impedance spectroscopy of OLEDs as a tool for estimating mobility and the concentration of charge carriers in transport layers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1008-1014	7.1	32
64	An optical and electrical study of full thermally activated delayed fluorescent white organic light-emitting diodes. <i>Scientific Reports</i> , 2017 , 7, 6234	4.9	29
63	Influence of heteroaryl group on electrochemical and spectroscopic properties of conjugated polymers. <i>Electrochimica Acta</i> , 2012 , 83, 271-282	6.7	28
62	Triphenylamine disubstituted naphthalene diimide: elucidation of excited states involved in TADF and application in near-infrared organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8219-8225	7.1	28
61	Photoluminescent Polytellurophene Derivatives of Conjugated Polymers as a New Perspective for Molecular Electronics. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 29-35	2.6	26
60	Unusual band-gap migration of N-alkylcarbazole-thiophene derivative. <i>Optical Materials</i> , 2011 , 33, 1445-1448	3.4	26
59	Electrochemical characterization of alternate conducting carbazole-bisthiophene units. <i>Materials Chemistry and Physics</i> , 2012 , 131, 757-763	4.4	24
58	Electrochemically Induced Synthesis of Triphenylamine-based Polyhydrazones. <i>Electrochimica Acta</i> , 2017 , 230, 10-21	6.7	23
57	Observation of Dual Room Temperature Fluorescence-Phosphorescence in Air, in the Crystal Form of a Thianthrene Derivative. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24958-24966	3.8	22
56	Thermally Activated Delayed Fluorescence in Polymer-Small-Molecule Exciplex Blends for Solution-Processed Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28796-28802	9.5	21
55	High-triplet-level phthalimide based acceptors for exciplexes with multicolor emission. <i>Dyes and Pigments</i> , 2019 , 162, 872-882	4.6	21
54	Hydrazones containing electron-accepting and electron-donating moieties. <i>Dyes and Pigments</i> , 2011 , 91, 13-19	4.6	20

53	Electrochromic behaviour of triazine based ambipolar compounds. <i>Electrochimica Acta</i> , 2016 , 192, 283-285	19
52	Electrochromic Properties of Novel Selenophene and Tellurophene Derivatives Based on Carbazole and Triphenylamine Core. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11027-11036	3.8 18
51	Star-Shaped Conjugated Molecules with Oxa- or Thiadiazole Bithiophene Side Arms. <i>Chemistry - A European Journal</i> , 2016 , 22, 11795-806	4.8 18
50	Electrochemically synthesised xanthone-cored conjugated polymers as materials for electrochromic windows. <i>Electrochimica Acta</i> , 2018 , 273, 264-272	6.7 17
49	Influence of alkyl chain on electrochemical and spectroscopic properties of polyselenophenes. <i>Electrochimica Acta</i> , 2013 , 87, 438-449	6.7 17
48	Electrochemically Induced Synthesis of Poly(2,6-carbazole). <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1749-55	4.8 16
47	Synthesis and properties of 1,3,5-tricarbazolylbenzenes with star-shaped architecture. <i>Dyes and Pigments</i> , 2015 , 113, 640-648	4.6 15
46	Alchemy of donor-acceptor-donor multi-photofunctional organic materials: from construction of electron-deficient azaaromatics to exploration of functions. <i>Chemical Communications</i> , 2020 , 56, 8884-8894	5.8 15
45	Donor-Acceptor 1,2,4,5-Tetrazines Prepared by the Buchwald-Hartwig Cross-Coupling Reaction and Their Photoluminescence Turn-On Property by Inverse Electron Demand Diels-Alder Reaction. <i>Journal of Organic Chemistry</i> , 2020 , 85, 3407-3416	4.2 15
44	Thermally Activated Delayed Fluorescence Mediated through the Upper Triplet State Manifold in Non-Charge-Transfer Star-Shaped Triphenylamine-Carbazole Molecules. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23934-23942	3.8 15
43	Spectroelectrochemical Analysis of Charge Carriers as a Way of Improving Poly(p-phenylene)-Based Electrochromic Windows. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20188-20200	3.8 14
42	Efficient p-phenylene based OLEDs with mixed interfacial exciplex emission. <i>Electrochimica Acta</i> , 2015 , 182, 524-528	6.7 13
41	Synthesis and characterization of chalcogenophene-based monomers with pyridine acceptor unit. <i>Electrochimica Acta</i> , 2016 , 210, 773-782	6.7 13
40	Soluble Flavanthronone Derivatives: Synthesis, Characterization, and Application to Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2016 , 22, 7978-86	4.8 13
39	Electrochemistry and spectroelectrochemistry of a novel selenophene-based monomer. <i>Electrochimica Acta</i> , 2012 , 59, 567-572	6.7 13
38	Novel acridone-based branched blocks as highly fluorescent materials. <i>Synthetic Metals</i> , 2013 , 180, 1-8	3.6 13
37	Heavy-Atom-Free Room-Temperature Phosphorescent Organic Light-Emitting Diodes Enabled by Excited States Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2899-2907	9.5 13
36	Triplet Harvesting with a Simple Aromatic Carbonyl. <i>ChemPhysChem</i> , 2017 , 18, 2314-2317	3.2 12

35	Electrochemistry and spectroelectrochemistry of polymers based on D-A-D and D-D-D bis(N-carbazolyl) monomers, effect of the donor/acceptor core on their properties. <i>Electrochimica Acta</i> , 2017 , 257, 192-202	6.7	12
34	Evidence for Solid State Electrochemical Degradation Within a Small Molecule OLED. <i>Electrochimica Acta</i> , 2015 , 184, 86-93	6.7	12
33	Intermolecular interactions in molecular crystals and their effect on thermally activated delayed fluorescence of helicene-based emitters. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10557-10568	7.1	12
32	Solubility controlled electropolymerisation and study of the impact of regioregularity on the spectroelectrochemical properties of thin films of poly(3-octylthiophenes). <i>Electrochimica Acta</i> , 2014 , 122, 66-71	6.7	11
31	Advanced Heterocyclic Branched Semiconducting Units - Highly Efficient Synthesis and Physicochemical Characteristic. <i>Current Organic Chemistry</i> , 2013 , 17, 283-295	1.7	10
30	Thianthrene-based oligomers as hole transporting materials. <i>Arkivoc</i> , 2012 , 2012, 193-209	0.9	10
29	A new route to light emitting organic materials based on triazine derivatives. <i>Journal of Fluorescence</i> , 2010 , 20, 1069-75	2.4	9
28	Electrochemical and optical aspects of cobalt meso-carbazole substituted porphyrin complexes. <i>Electrochimica Acta</i> , 2020 , 330, 135140	6.7	9
27	Diquinoline Derivatives as Materials for Potential Optoelectronic Applications. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13129-13137	3.8	8
26	Modular, n-Doped Concave PAHs for High-Performance OLEDs with Tunable Emission Mechanisms.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	8
25	Electrochemically deposited poly(selenophene)-fullerene photoactive layer: Tuning of the spectroscopic properties towards visible light-driven generation of singlet oxygen. <i>Applied Surface Science</i> , 2020 , 525, 146594	6.7	7
24	Determination of standard redox rate constants of OLED active compounds by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2017 , 258, 1160-1172	6.7	7
23	Time-resolved Photophysical Characterization of Triplet-harvesting Organic Compounds at an Oxygen-free Environment Using an iCCD Camera. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	7
22	The Synthesis and Characterization of -3,4-Ethylenedioxythiophene Derivatives with Electroactive Features. <i>Electrochimica Acta</i> , 2014 , 141, 349-356	6.7	6
21	Revealing the internal heavy chalcogen atom effect on the photophysics of the dibenzo[a,j]phenazine-cored donor-acceptor-donor triad. <i>Journal of Materials Chemistry C</i> ,	7.1	6
20	Convenient One-Pot Synthesis of 1,2,3,4-Thiatriazoles Towards a Novel Electron Acceptor for Highly-Efficient Thermally-Activated Delayed-Fluorescence Emitters. <i>Chemistry - A European Journal</i> , 2019 , 25, 2457-2462	4.8	5
19	Syntheses of Diverse Donor-Substituted Bisbenzofuro[2,3- b:3'2' f]pyridines (BBZFPys) via Pd Catalysis, and Their Photophysical Properties. <i>Journal of Organic Chemistry</i> , 2018 , 83, 10289-10302	4.2	5
18	Acridone-amine D-A-D thermally activated delayed fluorescence emitters with narrow resolved electroluminescence and their electrochromic properties. <i>Electrochimica Acta</i> , 2021 , 384, 138347	6.7	5

17	The impact of replacement of nitrogen with phosphorus atom in the pyromellitic diimides on their photophysical and electrochemical properties. <i>Electrochimica Acta</i> , 2019 , 295, 801-809	6.7	5
16	Using Cyclic Voltammetry, UV-Vis-NIR, and EPR Spectroelectrochemistry to Analyze Organic Compounds. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	5
15	Kesterite Inorganic-Organic Heterojunction for Solution Processable Solar Cells. <i>Electrochimica Acta</i> , 2016 , 201, 78-85	6.7	4
14	Triplet Harvesting with a Simple Aromatic Carbonyl. <i>ChemPhysChem</i> , 2017 , 18, 2305-2305	3.2	4
13	Electrochemical and Spectroelectrochemical Comparative Study of Macrocyclic Thermally Activated Delayed Fluorescent Compounds: Molecular Charge Stability vs OLED EQE Roll-Off. <i>Asian Journal of Organic Chemistry</i> , 2020 , 9, 2153-2161	3	3
12	Production and Characterization of Vacuum Deposited Organic Light Emitting Diodes. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	3
11	The Impact of C Insertion into a Carbazole Donor on the Physicochemical Properties of Dibenzo[a,j]phenazine-Cored Donor-Acceptor-Donor Triads. <i>Chemistry - A European Journal</i> , 2021 , 27, 13390-13398	4.8	3
10	Synthesis of kesterite nanopowders with bandgap tuning ligands. <i>Crystal Research and Technology</i> , 2015 , 50, 743-746	1.3	2
9	Regioisomeric Effect on the Excited-State Fate Leading to Room-Temperature Phosphorescence or Thermally Activated Delayed Fluorescence in a Dibenzophenazine-Cored Donor-Acceptor-Donor System. <i>Journal of Materials Chemistry C</i> ,	7.1	2
8	Covalent Immobilization of Organic Photosensitizers on the Glass Surface: Toward the Formation of the Light-Activated Antimicrobial Nanocoating. <i>Materials</i> , 2021 , 14,	3.5	2
7	Electrochemical Impedance Spectroscopy as a Tool for Electrochemical Rate Constant Estimation. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	2
6	Enhancement of the valley splitting in silicon (100) n-type inversion layers by lossless edge currents around Wigner magneto-quantum crystals. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 5215-5237		1
5	Peripherally Donor-Installed 7,8-Diaza[5]helicenes as a Platform for Helical Luminophores. <i>Synthesis</i> , 2021 , 53, 1584-1596	2.9	1
4	Revealing Topological Influence of Phenylenediamine Unit on Physicochemical Properties of Donor-Acceptor-Donor-Acceptor Thermally Activated Delayed Fluorescent Macrocycles. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 4098-4103	4.5	1
3	Raman and IR Spectroelectrochemical Methods as Tools to Analyze Conjugated Organic Compounds. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	1
2	s-Tetrazine donor-acceptor electrodeposited layer with properties controlled by doping anions generally considered as interchangeable. <i>Electrochimica Acta</i> , 2022 , 405, 139788	6.7	0
1	Comparative study of thermally activated delayed fluorescent properties of donor-acceptor and donor-acceptor-donor architectures based on phenoxazine and dibenzo[<i>h</i>]phenazine.. <i>Beilstein Journal of Organic Chemistry</i> , 2022 , 18, 459-468	2.5	