

Bilal R Kaafarani

List of Publications by Year in descending order

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62
papers

2,362
citations

218677

26
h-index

206112

48
g-index

65
all docs

65
docs citations

65
times ranked

3343
citing authors

#	ARTICLE	IF	CITATIONS
1	Discotic Liquid Crystals for Opto-Electronic Applications. <i>Chemistry of Materials</i> , 2011, 23, 378-396.	6.7	451
2	Perspective on carbazole-based organic compounds as emitters and hosts in TADF applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8622-8653.	5.5	262
3	Pyrene-directed growth of nanoporous benzimidazole-linked nanofibers and their application to selective CO ₂ capture and separation. <i>Journal of Materials Chemistry</i> , 2012, 22, 25409.	6.7	138
4	High Charge-Carrier Mobility in an Amorphous Hexaazatrinaphthylene Derivative. <i>Journal of the American Chemical Society</i> , 2005, 127, 16358-16359.	13.7	95
5	Synthesis, Ionisation Potentials and Electron Affinities of Hexaazatrinaphthylene Derivatives. <i>Chemistry - A European Journal</i> , 2007, 13, 3537-3547.	3.3	88
6	Fiber Composites of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 7120-7140.	6.7	82
7	Bis(carbazolyl) derivatives of pyrene and tetrahydropyrene: synthesis, structures, optical properties, electrochemistry, and electroluminescence. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1638.	5.5	77
8	Vibronic Coupling in Organic Semiconductors: The Case of Fused Polycyclic Benzene-Thiophene Structures. <i>Chemistry - A European Journal</i> , 2006, 12, 2073-2080.	3.3	74
9	Design, Synthesis, and Properties of New Derivatives of Pentacene. <i>Journal of Organic Chemistry</i> , 2006, 71, 2155-2158.	3.2	63
10	Synthesis of the anti and syn isomers of Thieno[<i>f</i>]bis[1]benzothiophene. Comparison of the Optical and Electrochemical Properties of the anti and syn isomers. <i>Journal of Organic Chemistry</i> , 2005, 70, 4502-4505.	3.2	57
11	New organic semiconductors and their device performance as a function of thiophene orientation. <i>Journal of Materials Chemistry</i> , 2006, 16, 1121-1124.	6.7	55
12	From crystals to columnar liquid crystal phases: molecular design, synthesis and phase structure characterization of a series of novel phenazines potentially useful in photovoltaic applications. <i>Soft Matter</i> , 2010, 6, 100-112.	2.7	55
13	Synthesis of novel pyrene discotics for potential electronic applications. <i>Tetrahedron Letters</i> , 2007, 48, 5995-5998.	1.4	51
14	Columnar Mesomorphism of Fluorescent Board-Shaped Quinoxalinophenanthrophenazine Derivatives with Donor-Acceptor Structure. <i>Organic Letters</i> , 2013, 15, 558-561.	4.6	45
15	Thin Film Microstructure of a Solution Processable Pyrene-Based Organic Semiconductor. <i>Chemistry of Materials</i> , 2008, 20, 5743-5749.	6.7	44
16	Perception, attitude, practice and barriers towards medical research among undergraduate students. <i>BMC Medical Education</i> , 2020, 20, 195.	2.4	43
17	Synthesis of Silicon-Containing Unsaturated Polymers by Hydrosilylation Reactions. <i>Photophysical Studies. Macromolecules</i> , 2003, 36, 8225-8230.	4.8	40
18	Fluorescent detection of anions by dibenzophenazine-based sensors. <i>Tetrahedron Letters</i> , 2012, 53, 661-665.	1.4	38

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19	Tetraaryl pyrenes: photophysical properties, computational studies, crystal structures, and application in OLEDs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3041-3058.	5.5	37
20	Novel quinoxalinophenanthrophenazine-based molecules as sensors for anions: synthesis and binding investigations. <i>Tetrahedron</i> , 2010, 66, 2944-2952.	1.9	32
21	Synthesis and metal-binding studies of a novel pyrene discotic. <i>Tetrahedron Letters</i> , 2008, 49, 238-242.	1.4	30
22	Synthesis and Detailed Photophysical Studies of Pyrene-Based Molecules Substituted with Extended Chains. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1235-1243.	2.5	30
23	High order stacking of a perfluoro π - π -enyne TM . <i>Tetrahedron Letters</i> , 2001, 42, 8137-8139.	1.4	29
24	Efficient Isomer-Pure Synthesis of a Benzo[b]thiophene Analogue of Pentacene \hat{c} . <i>Journal of Organic Chemistry</i> , 2004, 69, 2197-2199.	3.2	29
25	Altering the Emission Behavior with the Turn of a Thiophene Ring: \hat{A} The Photophysics of Condensed Ring Systems of Alternating Benzenes and Thiophenes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13754-13758.	2.5	29
26	Photocyclization of a conjugated triaryl π - π -enyne TM . <i>Tetrahedron Letters</i> , 2001, 42, 4099-4102.	1.4	28
27	Synthesis of Highly Fluorescent π -Enyne Dendrimers with Four and Six Arms \hat{c} . <i>Journal of Organic Chemistry</i> , 2003, 68, 5377-5380.	3.2	26
28	Effect of Chain Length on the Photophysical Properties of Pyrene-Based Molecules Substituted with Extended Chains. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1244-1249.	2.5	26
29	Multiphase Growth and Electronic Structure of Ultrathin Hexaazatrinaphthylene on Au(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 10493-10497.	3.1	24
30	Phase Transitions and Structures of Novel Pyrenes Potentially Useful in Photovoltaic Applications. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5403-5411.	2.6	23
31	Crystalline TQPP as p-type semiconductor: X-ray crystallographic investigation, OTFT device, and computational analysis of transport properties. <i>Journal of Molecular Structure</i> , 2015, 1093, 144-149.	3.6	19
32	Medical Research Volunteer Program (MRVP): innovative program promoting undergraduate research in the medical field. <i>BMC Medical Education</i> , 2016, 16, 160.	2.4	19
33	Mixed-Valence Cations of Di(carbazol-9-yl) Biphenyl, Tetrahydropyrene, and Pyrene Derivatives. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3156-3166.	3.1	19
34	A Comparative Study of Charge Mobility Measurements in a Diamine and in a Hexaazatrinaphthylene Using Different Techniques. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 481, 80-93.	0.9	18
35	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11252-11257.	3.1	17
36	Photoaddition Reactions of Acetylene and Butadiyne Derivatives to Benzodithiophene \hat{c} . <i>Journal of Organic Chemistry</i> , 2003, 68, 8258-8260.	3.2	16

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37	Highly porous and photoluminescent pyrene-quinoxaline-derived benzimidazole-linked polymers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3006-3010.	10.3	16
38	Bis(tercarbazole) pyrene and tetrahydropyrene derivatives: photophysical and electrochemical properties, theoretical modeling, and OLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5009-5018.	5.5	16
39	π-π Stacking and nitro-π-stacking interactions of 1-(4-nitrophenyl)-4-phenyl-2,4-bis(phenylethynyl)butadiene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o227-o229.	0.2	15
40	Diarylpyrenes vs. diaryltetrahydropyrenes: Crystal structures, fluorescence, and upconversion photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 272, 49-57.	3.9	13
41	Structural concept for fluorinated Y-enynes with solvatochromic properties This paper is dedicated to Professor Dr J. W. Neckers on the occasion of his 100th birthday.. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 942.	2.9	11
42	Photocyclization of a naphthyl substituted Y-enyne. <i>Tetrahedron Letters</i> , 2002, 43, 8227-8230.	1.4	10
43	Lateral extension induces columnar mesomorphism in crucifix shaped quinoxalinophenanthrophenazines. <i>Tetrahedron</i> , 2015, 71, 308-314.	1.9	10
44	End-capping of conjugated thiophene-benzene aromatic systems. <i>Tetrahedron</i> , 2010, 66, 8778-8784.	1.9	9
45	Synthesis and binding investigations of novel crown-ether derivatives of phenanthro[4,5- <i>abc</i>]phenazine and quinoxalino[2,3- <i>9,10</i>]phenanthro[4,5- <i>abc</i>]phenazine. <i>Supramolecular Chemistry</i> , 2014, 26, 15-24.	1.2	7
46	International Organic Chemistry Competition: A Thrilling, Unique Experience. <i>Journal of Chemical Education</i> , 2015, 92, 401-404.	2.3	7
47	Two polymorphs of phenanthro[4,5- <i>abc</i>]phenazine-18-crown-6: Preparation, X-ray diffraction and DFT studies. <i>Journal of Molecular Structure</i> , 2011, 996, 141-147.	3.6	6
48	Structural, Thermo-Optical, and Photophysical Properties of Highly Oriented Thin Films of Quinoxalinophenanthrophenazine Derivative. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18736-18745.	3.1	6
49	Spectroscopic characterization of the structural properties of quinoxalinophenanthrophenazine thin films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 781-789.	5.5	5
50	Dithieno[3,2- <i>a</i> :2',3'- <i>c</i>]phenazine-based chemical probe for anions: a spectroscopic study of binding. <i>RSC Advances</i> , 2015, 5, 43303-43311.	3.6	4
51	Columnar Mesomorphism of Board-Shaped Perylene, Diketopyrrolopyrrole, Isoindigo, Indigo, and Quinoxalino-Phenanthrophenazine Dyes. <i>ChemPlusChem</i> , 2021, 86, 319-339.	2.8	4
52	Self-Assembly of Board-Shaped Diketopyrrolopyrrole and Isoindigo Mesogens into Columnar π-π Stacks. <i>ChemPlusChem</i> , 2019, 84, 103-106.	2.8	3
53	Transformative Education: Students in the Spotlight - A Holistic Pedagogical Approach. <i>Science Journal of Education</i> , 2019, 7, 107.	0.2	3
54	Isomer-pure synthesis and preparation of FET using thieno[<i>f, f'</i>]bis[1]benzothiophene (syn, anti)., 2005, , .		2

#	ARTICLE	IF	CITATIONS
55	<i>Non scholae sed vitae</i>; Teaching Beyond Classroom Walls Through Group Mentoring. Science Journal of Education, 2020, 8, 114.	0.2	2
56	Mentoring in Times of Crisis and Beyond. Angewandte Chemie - International Edition, 2022, 61, e202201063.	13.8	2
57	Photoluminescent and electroluminescent properties and ultra-fast spectrometric studies of dihydroheptacenes. Organic Electronics, 2008, 9, 227-233.	2.6	1
58	A combined study of mesomorphism, optical, and electronic properties of donor-acceptor columnar liquid crystals. Proceedings of SPIE, 2011, , .	0.8	1
59	Efficient Isomer-Pure Synthesis of a Benzo[b]thiophene Analogue of Pentacene.. ChemInform, 2004, 35, no.	0.0	0
60	Thin film microstructure of solution processable pyrene-based small molecules for electronic applications. , 2007, , .		0
61	Non-merohedral twin crystal of 2,3,9,10-tetrakis(triisopropylsilylethynyl)-6,13-bis(trimethylsilylethynyl)pentacene. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3760-o3761.	0.2	0
62	Mentoring in Times of Crisis and Beyond. Angewandte Chemie, 0, , .	2.0	0