S M Bouzzine

List of Publications by Year
in descending order

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62 papers	1,287 citations	331670 21 h-index	395702 33 g-index
62 all docs	62 docs citations	62 times ranked	1149 citing authors

#	Article	IF	Citations
1	DFT and TD-DFT calculation of new thienopyrazine-based small molecules for organic solar cells. Chemistry Central Journal, 2016, 10, 67.	2.6	97
2	Dielectric Properties, AC Conductivity, and Electric Modulus Analysis of Bulk Ethylcarbazole-Terphenyl. Advances in Materials Science and Engineering, 2020, 2020, 1-8.	1.8	83
3	Theoretical investigation of new thiazolothiazole-based D-Ï€-A organic dyes for efficient dye-sensitized solar cell. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 124, 646-654.	3.9	79
4	Hybrid blind robust image watermarking technique based on DFT-DCT and Arnold transform. Multimedia Tools and Applications, 2018, 77, 27181-27214.	3.9	66
5	Density functional theory (B3LYP/6-31G*) study of oligothiophenes in their aromatic and polaronic states. Computational and Theoretical Chemistry, 2005, 726, 271-276.	1.5	61
6	Theoretical design of thiazolothiazole-based organic dyes with different electron donors for dye-sensitized solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 232-238.	3.9	61
7	Ground state geometries, UV/vis absorption spectra and charge transfer properties of triphenylamine-thiophenes based dyes for DSSCs: A TD-DFT benchmark study. Computational and Theoretical Chemistry, 2018, 1125, 39-48.	2.5	56
8	Identification of a novel dual-target scaffold for 3CLpro and RdRp proteins of SARS-CoV-2 using 3D-similarity search, molecular docking, molecular dynamics and ADMET evaluation. Journal of Biomolecular Structure and Dynamics, 2021, 39, 4522-4535.	3.5	49
9	DFT/TD-DFT characterization of conjugational electronic structures and spectral properties of materials based on thieno[3,2-b][1]benzothiophene for organic photovoltaic and solar cell applications. Journal of Saudi Chemical Society, 2017, 21, 563-574.	5.2	44
10	The optoelectronic properties of organic materials based on triphenylamine that are relevant to organic solar photovoltaic cells. New Journal of Chemistry, 2017, 41, 13336-13346.	2.8	38
11	Designing Donor-Acceptor thienopyrazine derivatives for more efficient organic photovoltaic solar cell: A DFT study. Physica B: Condensed Matter, 2019, 560, 111-125.	2.7	38
12	DFT theoretical investigations of Ï€-conjugated molecules based on thienopyrazine and different acceptor moieties for organic photovoltaic cells. Journal of Saudi Chemical Society, 2016, 20, S415-S425.	5.2	35
13	The bridged effect on the geometric, optoelectronic and charge transfer properties of the triphenylamineâ€“bithiophene-based dyes: a DFT study. Research on Chemical Intermediates, 2018, 44, 2009-2023.	2.7	32
14	Density functional theory study of conformational and opto-electronic properties of oligo-para-phenylenes. Computational and Theoretical Chemistry, 2005, 725, 39-44.	1.5	29
15	Blind Robust 3D Mesh Watermarking Based on Mesh Saliency and Wavelet Transform for Copyright Protection. Information (Switzerland), 2019, 10, 67.	2.9	27
16	Bridging effect on structural and optoelectronic properties of oligothiophene. Computational and Theoretical Chemistry, 2008, 851, 254-262.	1.5	26
17	New organic materials based on Dâ€“Ï€â€“A structure for application in dye-sensitized solar cells. Research on Chemical Intermediates, 2018, 44, 6071-6085.	2.7	25
18	DFT Study of Polythiophene Energy Band Gap and Substitution Effects. Journal of Chemistry, 2015, 2015, 1-12.	1.9	24

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19	Theoretical investigation on Ï€-spacer effect of the Dâ€“Ï€â€“A organic dyes for dye-sensitized solar cell applications: a DFT and TD-BHandH study. Journal of Molecular Modeling, 2019, 25, 92.	1.8	23
20	Bridge effect on the charge transfer and optoelectronic properties of triphenylamine-based organic dye sensitized solar cells: theoretical approach. Research on Chemical Intermediates, 2020, 46, 3961-3978.	2.7	23
21	Computational design of new organic (Dâ€“Ï€â€“A) dyes based on benzothiadiazole for photovoltaic applications, especially dye-sensitized solar cells. Research on Chemical Intermediates, 2020, 46, 3247-3262.	2.7	23
22	The optoelectronic properties of new dyes based onÂthienopyrazine. Comptes Rendus Chimie, 2017, 20, 461-466.	0.5	22
23	Theoretical study of structural and electronic properties of oligo(thiophene-phenylene)s in comparison with oligothiophenes and oligophenylenes. Chinese Chemical Letters, 2008, 19, 123-126.	9.0	21
24	Phenothiazine-based dyes containing imidazole with Ï€-linkers of benzene, furan and thiophene: Synthesis, photophysical, electrochemical and computational investigation. Journal of Molecular Structure, 2022, 1251, 131959.	3.6	19
25	New organic dyes based on phenylenevinylene for solar cells: DFT and TD-DFT investigation. Karbala International Journal of Modern Science, 2017, 3, 75-82.	1.0	18
26	Theoretical Investigations on the Electronic and Optical Properties of Bridged Oligothiophenes. Journal of Physical Chemistry A, 2012, 116, 9730-9738.	2.5	17
27	The photophysical properties and electronic structures of bis[1]benzothieno[6,7-d:6â€²,7â€²-dâ€²]benzo[1,2-b:4,5-bâ€²]dithiophene (BBTBDT) derivatives as hole-transporting materials for organic light-emitting diodes (OLEDs). New Journal of Chemistry, 2019, 43, 15899-15909.	2.8	17
28	DFT calculations of the local spin densities and oligomerization mechanism of thiopheneâ€“phenylene (TP) co-oligomers and derivatives. Computational and Theoretical Chemistry, 2007, 814, 25-32.	1.5	16
29	Vibrational and electronic properties of PPV-derived co-polymers: PPVâ€“ether and C1â€“4PPVâ€“ether. Polymer, 2005, 46, 9928-9940.	3.8	14
30	Synthesis, characterization and theoretical study of new organic copolymer based on PVK and PEDOT. Journal of Non-Crystalline Solids, 2010, 356, 467-473.	3.1	14
31	Quantitative structureâ€“activity relationship of antitumor and neurotoxic Î²-carbolines alkaloids: nine harmine derivatives. Research on Chemical Intermediates, 2013, 39, 2219-2236.	2.7	14
32	Density functional theory [B3LYP/6â€“311G(d,p)] study of a new copolymer based on carbazole and (3,4â€“ethylenedioxythiophene) in their aromatic and polaronic states. Journal of Applied Polymer Science, 2011, 122, 3351-3360.	2.6	13
33	Theoretical investigation of electroluminescent alkoxy substituted 4,4â€²-bis(2-phenylethenyl)biphenyls as guest in blue OLEDs. Solar Energy Materials and Solar Cells, 2006, 90, 1393-1402.	6.2	12
34	Study of the structural and optoelectronic properties of dye solar cells based on phosphonic acid anchoring by DFT functionals. New Journal of Chemistry, 2021, 45, 2723-2733.	2.8	12
35	Synthesis and characterization of co-polymers involving various thiophene and phenylene monomers. Synthetic Metals, 2004, 145, 237-243.	3.9	11
36	Molecular design of Dâ€“Aâ€“D conjugated molecules based on fluorene for organic solar cells. Optical and Quantum Electronics, 2019, 51, 1.	3.3	11

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37	Quantum chemical investigations study of the effect of electron donor units on the structural, electronic and optoelectronic properties of diarylthienopyrazine analogs. Computational and Theoretical Chemistry, 2014, 1036, 22-30.	2.5	10
38	Structural and photophysical studies of triphenylamine-based nonlinear optical dyes: effects of Ï€-linker moieties on the D-Ï€-A structure. Comptes Rendus Chimie, 2019, 22, 373-385.	0.5	10
39	Theoretical study of organic sensitizers based on 2, 6-diphenyl-4H-pyranylidene/1, 3, 4-oxadiazole for dye-sensitized solar cells. Journal of Molecular Modeling, 2020, 26, 346.	1.8	10
40	Effect of the alkyl chain length on the optoelectronic properties of organic dyes: theoretical approach. Journal of Computational Electronics, 2020, 19, 840-848.	2.5	9
41	Opto-electronic properties and molecular design of new materials based on pyrrole studied by DFT. Research on Chemical Intermediates, 2012, 38, 1375-1388.	2.7	8
42	New materials based on thiazolothiazole and thiophene candidates for optoelectronic device applications: theoretical investigations. Research on Chemical Intermediates, 2013, 39, 2679-2695.	2.7	8
43	Effects of adding cyanovinyl moiety on the photovoltaic DSSCs phosphonic acid based cells. Journal of Computational Electronics, 2020, 19, 1629-1644.	2.5	8
44	A theoretical investigation of the optoelectronic performance of some new carbazole dyes. Journal of Computational Electronics, 2019, 18, 951-961.	2.5	6
45	Computational study of the effect of Ï€-spacers on the optoelectronic properties of carbazole-based organic dyes. Journal of Molecular Modeling, 2021, 27, 122.	1.8	6
46	Effects of auxiliary electron-withdrawing moieties on the photovoltaic properties of D-Ï€-Aâ€™-Ï€-A phosphonic acid-based DSSCs. Computational and Theoretical Chemistry, 2022, 1210, 113645.	2.5	6
47	A Quantum Chemical Study On Structural And Electronic Properties Of New Pi-Conjugated Polymer Named Poly(4-Methylthioazole-2,5-Diyl). Advanced Materials Letters, 2012, 3, 15-20.	0.6	5
48	Improved photovoltaic performance of phosphonic acidâ€based sensitized solar cells via an electronâ€withdrawing moiety: A density of functional theory study. International Journal of Quantum Chemistry, 2021, 121, e26431.	2.0	5
49	New materials based on carbazole for optoelectronic device applications: Theoretical investigation. Chinese Chemical Letters, 2008, 19, 488-492.	9.0	4
50	DFT study of opto-electronic properties of benzothiazole derivatives for use in solar cells. Journal of Theoretical and Computational Chemistry, 2016, 15, 1650023.	1.8	4
51	The computational study of bridge effect in D-Ï€-A photosensitive dyes, based on triphenylamine. IOP Conference Series: Earth and Environmental Science, 2018, 161, 012021.	0.3	4
52	Study of low band gap DSSCs based on bridging bithiophene and biphenyl: theoretical investigation. Journal of the Iranian Chemical Society, 2016, 13, 37-44.	2.2	2
53	TUNING THE ELECTRONIC, PHOTOPHYSICAL AND CHARGE TRANSFER PROPERTIES OF SMALL D-A MOLECULES BASED ON THIENOPYRAZINE-TERTHIENYLS BY CHANGING THE DONOR FRAGMENT: A DFT STUDY. Journal of the Chilean Chemical Society, 2017, 62, 3637-3646.	1.2	2
54	Investigations of the Bridged Thiophene Derivative Effect on the Performance of N,N-diethylaniline-based Compounds for Organic Photovoltaic Cells. Orbital, 2018, 10, .	0.3	2

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55	OPTOELECTRONIC PROPERTIES OF TRIPHENYLAMINE BASED DYES FOR SOLAR CELL APPLICATIONS. A DFT STUDY. Quimica Nova, 0, , .	0.3	2
56	Ã‰tude structurale des systÃ¨mes dissymÃ©triques de structure D-Ï€-A Ã base de thiÃ©nopyrazine destinÃ©s aux cellules solaires organiques de type Â« bulk heterojunction Â» (BHJ). Canadian Journal of Chemistry, 2019, 97, 745-755.	1.1	1
57	Theoretical investigation on the optoelectronic properties of non-centrosymmetric DÃ¢â‚¬â€œÃ¢â‚¬â€D hexaazatriphenylene derivatives for photovoltaic applications. Mediterranean Journal of Chemistry, 2015, 4, 168-175.	0.7	1
58	Effect of the Alkyl Chain Length Incorporated into Donor Part on the Optoelectronic Properties of the Carbazole Based Dyes: Theoretical Study. Orbital, 2017, 9, .	0.3	1
59	Study of the Effect of Substitution on Phtalocyanine Based Compounds for Photovoltaic Application. International Journal of Chemistry and Materials Research, 2015, 3, 65-78.	1.1	1
60	The opto-electronic properties and molecular design of new materials based on pyrrole. DFT study. Journal of Physical Studies, 2012, 16, .	0.5	1
61	Chemical Synthesis, Electronic Study, and Vibrational Analysis of a New Organic Copolymer Based on PVK and 3-nhexylthiophene. SRX Chemistry, 2010, 2010, 1-8.	0.2	1
62	Modulation on Dye/TiO2Bending Energy and Charge Transfer to High Performance Triphenylamine Based Sensitizers in Solar Cells: A DFT Study. , 2018, , .		0