Ted M Pappenfus

List of Publications by Year
in descending order

45 papers	1,802 citations	279798 23 h-index	265206 42 g-index
46 all docs	46 docs citations	46 times ranked	2431 citing authors

#	Article	IF	Citations
1	A Ï€-Stacking Terthiophene-Based Quinodimethane Is an n-Channel Conductor in a Thin Film Transistor. Journal of the American Chemical Society, 2002, 124, 4184-4185.	13.7	275
2	Complexes of Lithium Imide Salts with Tetraglyme and Their Polyelectrolyte Composite Materials. Journal of the Electrochemical Society, 2004, 151, A209.	2.9	137
3	Preparation and Characterization of Ï€-Stacking Quinodimethane Oligothiophenes. Predicting Semiconductor Behavior and Bandwidths from Crystal Structures and Molecular Orbital Calculations. Journal of the American Chemical Society, 2004, 126, 15295-15308.	13.7	124
4	Quinonoid Oligothiophenes as Electron-Donor and Electron-Acceptor Materials. A Spectroelectrochemical and Theoretical Study. Journal of the American Chemical Society, 2002, 124, 12380-12388.	13.7	109
5	Nitro-Functionalized Oligothiophenes as a Novel Type of Electroactive Molecular Material:Â Spectroscopic, Electrochemical, and Computational Study. Journal of the American Chemical Society, 2003, 125, 2524-2534.	13.7	106
6	Dinitro and Quinodimethane Derivatives of Terthiophene That Can Be Both Oxidized and Reduced. Crystal Structures, Spectra, and a Method for Analyzing Quinoid Contributions to StructureÂ§. Journal of Organic Chemistry, 2002, 67, 6015-6024.	3.2	81
7	Synthesis and Characterization of Tricyanovinyl-Capped Oligothiophenes as Low-Band-Gap Organic Materialsâ€. Organic Letters, 2003, 5, 1535-1538.	4.6	68
8	N- and P-Channel Transport Behavior in Thin Film Transistors Based on Tricyanovinyl-Capped Oligothiophenes. Journal of Physical Chemistry B, 2006, 110, 14590-14597.	2.6	63
9	Enhanced Functionality for Donorâ€"Acceptor Oligothiophenes by means of Inclusion of BODIPY: Synthesis, Electrochemistry, Photophysics, and Model Chemistry. Chemistry - A European Journal, 2011, 17, 498-507.	3.3	63
10	Reduced Band Gap Dithieno[3,2-<i>b</i>:2â€˜,3â€˜-<i>d</i>]pyrroles:â€‰ New n-Type Organic Materials via Unexpected Reactivity. Organic Letters, 2008, 10, 1553-1556.	4.6	60
11	Exploration of Ground and Excited Electronic States of Aromatic and QuinoidS,S-Dioxide Terthiophenes. Complementary Systems for Enhanced Electronic Organic Materials. Journal of the American Chemical Society, 2006, 128, 10134-10144.	13.7	55
12	Synthesis, Spectroscopy, and Electrochemical Studies of Binuclear Tris-Bipyridine Ruthenium(II) Complexes with Oligothiophene Bridges. Inorganic Chemistry, 2001, 40, 6301-6307.	4.0	52
13	Synthesis and Characterization of Radial Oligothiophenes:â€‰ A New Class of Thiophene-Based Conjugated Homologues. Organic Letters, 2002, 4, 3043-3046.	4.6	46
14	Spectroscopic and Theoretical Study of the Molecular and Electronic Structures of a Terthiophene-Based Quinodimethane. ChemPhysChem, 2004, 5, 529-539.	2.1	46
15	Oligothiophene Tetracyanobutadienes: Alternative Donorâˆ'Acceptor Architectures for Molecular and Polymeric Materials. Chemistry of Materials, 2011, 23, 823-831.	6.7	42
16	Optical, Redox, and NLO Properties of Tricyanovinyl Oligothiophenes: Comparisons between Symmetric and Asymmetric Substitution Patterns. Chemistry - A European Journal, 2006, 12, 5458-5470.	3.3	37
17	Molecular tuning in highly fluorescent dithieno[3,2-b:2â€²,3â€²-d]pyrrole-based oligomers: effects of N-functionalization and terminal aryl unit. Physical Chemistry Chemical Physics, 2012, 14, 6101.	2.8	36
18	Fingerprints of Through-Bond and Through-Space Exciton and Charge Ï€-Electron Delocalization in Linearly Extended [2.2]Paracyclophanes. Journal of the American Chemical Society, 2017, 139, 3095-3105.	13.7	34

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19	PBC-DFT Applied to Donorâ^'Acceptor Copolymers in Organic Solar Cells: Comparisons between Theoretical Methods and Experimental Data. Macromolecules, 2011, 44, 2354-2357.	4.8	32
20	Wind to Ammonia: Electrochemical Processes in Room Temperature Ionic Liquids. ECS Transactions, 2009, 16, 89-93.	0.5	31
21	Comparison of Thiopheneâ€"Pyrrole Oligomers with Oligothiophenes: A Joint Experimental and Theoretical Investigation of Their Structural and Spectroscopic Properties. Chemistry - A European Journal, 2010, 16, 6866-6876.	3.3	27
22	Regiochemistry of Poly(3-hexylthiophene): Synthesis and Investigation of a Conducting Polymer. Journal of Chemical Education, 2010, 87, 522-525.	2.3	23
23	Understanding Optoelectronic Properties of Cyano-Terminated Oligothiophenes in the Context of Intramolecular Charge Transfer. Journal of Physical Chemistry B, 2011, 115, 10573-10585.	2.6	23
24	Reverse Selectivity in <i>m</i>-CPBA Oxidation of Oligothiophenes to Sulfones. Organic Letters, 2007, 9, 3721-3724.	4.6	22
25	Teaching Research: A Curriculum Model That Works. Journal of Chemical Education, 2009, 86, 940.	2.3	22
26	The Influence of Internal Charge Transfer on Nonradiative Decay in Substituted Terthiophenes. Journal of Physical Chemistry A, 2009, 113, 10202-10210.	2.5	21
27	Exploration of the Direct Arylation Polymerization Method for the Practical Application of Conjugated Materials: Synthetic Scaleâ€Up, Solar Cell Performance, and Cost Analyses. Macromolecular Chemistry and Physics, 2018, 219, 1800272.	2.2	20
28	Synthesis and Electronic Properties of Oxidized Benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophenes. Journal of Organic Chemistry, 2014, 79, 9408-9412.	3.2	17
29	Oligomers of cyclopentadithiophene-vinylene in aromatic and quinoidal versions and redox species with intermediate forms. Chemical Science, 2017, 8, 8106-8114.	7.4	16
30	Alternative syntheses and reactivity of platinum(II) terpyridyl acetonitrile complexes. Inorganica Chimica Acta, 2010, 363, 3214-3221.	2.4	13
31	Organic Materials in the Undergraduate Laboratory: Microscale Synthesis and Investigation of a Donorâ€"Acceptor Molecule. Journal of Chemical Education, 2012, 89, 1461-1465.	2.3	12
32	ProDOT-Assisted Isomerically Pure Indophenines. Journal of Organic Chemistry, 2019, 84, 11253-11257.	3.2	12
33	Developing a Portable Organic Solar Cell Kit Suitable for Students to Fabricate and Test Solar Cells in the Laboratory. Journal of Chemical Education, 2020, 97, 3751-3757.	2.3	12
34	Synthesis and Catalytic Activity of Rutheniumâ€"Indenylidene Complexes for Olefin Metathesis. Journal of Chemical Education, 2007, 84, 1998.	2.3	11
35	Exploration of the electronic structure of dendrimerlike acetylene-bridged oligothiophenes by correlating Raman spectroscopy, electrochemistry, and theory. Journal of Chemical Physics, 2004, 120, 11874-11881.	3.0	10
36	Ionic conductivity of a poly(vinylpyridinium)/silver iodide solid polymer electrolyte system. Solid State Ionics, 2004, 171, 41-44.	2.7	10

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37	One-Pot Synthesis of 4,8-Dialkylbenzo[1,2-b:4,5-bâ€™]dithiophenes. Heterocycles, 2012, 85, 355.	0.7	10
38	Impact of the Synergistic Collaboration of Oligothiophene Bridges and Ruthenium Complexes on the Optical Properties of Dumbbellâ€Shaped Compounds. Chemistry - A European Journal, 2013, 19, 1476-1488.	3.3	9
39	Effects of a phosphonate anchoring group on the excited state electron transfer rates from a terthiophene chromophore to a ZnO nanocrystal. Physical Chemistry Chemical Physics, 2017, 19, 24294-24303.	2.8	3
40	Benzodithiophene homopolymers via direct (hetero)arylation polymerization. Polymer Bulletin, 2018, 75, 5667-5675.	3.3	3
41	Halogen Interactions in Halogenated Oxindoles: Crystallographic and Computational Investigations of Intermolecular Interactions. Molecules, 2021, 26, 5487.	3.8	3
42	Polyelectrolyte Composite Materials with LiPF[sub 6] and Tetraglyme. Electrochemical and Solid-State Letters, 2004, 7, A254.	2.2	2
43	Crystal structure and Hirshfeld analysis of 2-(5-bromothiophen-2-yl)acetonitrile. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 189-192.	0.5	2
44	Synthesis, characterization, and electronic properties of a thermally-labile isoindigo. Journal of Molecular Structure, 2015, 1095, 96-99.	3.6	1
45	Excited State Electron Transfer from Donorâˆ’Ï€ Systemâ€“Acceptor Dyes to ZnO Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 15565-15573.	3.1	1