

Thomas Baumgartner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

5,718
citations

39
h-index

73
g-index

156
ext. papers

6,172
ext. citations

7.2
avg, IF

6.37
L-index

#	Paper	IF	Citations
128	Conjugated Polymers with Benzoyl-N-methylpyridinium Units: An Effective Design Strategy for High-Performance Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2021 , 33, 4596-4605	9.6	0
127	Donor-acceptor-acceptor-type near-infrared fluorophores that contain dithienophosphole oxide and boryl groups: effect of the boryl group on the nonradiative decay. <i>Chemical Science</i> , 2021 , 12, 6333-6341	9.4	5
126	Structure-reactivity studies on hypervalent square-pyramidal dithieno[3,2-b:2',3'-d]phospholes. <i>Dalton Transactions</i> , 2021 , 50, 2243-2252	4.3	3
125	Lewis acids and bases as molecular dopants for organic semiconductors. <i>Journal of Physical Organic Chemistry</i> , 2020 , 33, e4077	2.1	11
124	Phosphaviologen-Based Pyrene-Carbon Nanotube Composites for Stable Battery Electrodes. <i>Batteries and Supercaps</i> , 2020 , 3, 268-274	5.6	6
123	Highly Luminescent 4-Pyridyl-Extended Dithieno[3,2-b:2',3'-d]phospholes. <i>Journal of Organic Chemistry</i> , 2020 , 85, 14627-14633	4.2	2
122	Fluorescent Lewis Adducts: A Practical Guide to Relative Lewis Acidity. <i>Organometallics</i> , 2020 , 39, 3645-3655	3.5	5
121	Phosphoryl- and phosphonium-bridged viologens as stable two- and three-electron acceptors for organic electrodes. <i>Chemical Science</i> , 2020 , 11, 10483-10487	9.4	6
120	Poly(5-vinylbenzothiadiazole) for High-Performance Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7315-7320	6.1	9
119	A Simple and Effective Method of Determining Lewis Acidity by Using Fluorescence. <i>Chem</i> , 2019 , 5, 1567-1583	11.5	35
118	Synthesis of a Trivalent P-Chloro-Dithienophosphole and Its Reactivity with Organometallic Reagents. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1612-1620	2.3	4
117	Borane Incorporation in a Non-Fullerene Acceptor To Tune Steric and Electronic Properties and Improve Organic Solar Cell Performance. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1229-1240	6.1	30
116	Functional conjugated pyridines via main-group element tuning. <i>Chemical Communications</i> , 2018 , 54, 3311-3322	5.8	29
115	Dithienophosphole-based molecular electron acceptors constructed using direct (hetero)arylation cross-coupling methods. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2148-2154	7.1	29
114	Exploration of Hypervalent Lewis Acid/Base Interactions in 2-(2'-Thiazolyl)-3-thienylphosphanes. <i>Inorganic Chemistry</i> , 2018 , 57, 1630-1644	5.1	12
113	Antimony- and Bismuth-Based Materials and Applications 2018 , 405-432		3
112	Applications of Phosphorus-Based Materials in Optoelectronics 2018 , 295-327		9

111	Incorporation of Boron into π -Conjugated Scaffolds to Produce Electron-Accepting π -Electron Systems 2018 , 1-26	8
110	Germanium and Tin in Conjugated Organic Materials 2018 , 237-264	5
109	Phosphorus-Based Porphyrins 2018 , 265-293	4
108	Main-Chain, Phosphorus-Based Polymers 2018 , 329-355	3
107	Synthons for the Development of New Organophosphorus Functional Materials 2018 , 357-382	4
106	Arsenic-Containing Oligomers and Polymers 2018 , 383-403	8
105	High Sulfur Content Organic/Inorganic Hybrid Polymeric Materials 2018 , 433-450	0
104	Selenium and Tellurium Containing Conjugated Polymers 2018 , 451-482	2
103	Hypervalent Iodine Compounds in Polymer Science and Technology 2018 , 483-514	4
102	Organoborane Donor-Acceptor Materials 2018 , 27-45	4
101	Photoresponsive Organoboron Systems 2018 , 47-77	13
100	Incorporation of Group 13 Elements into Polymers 2018 , 79-110	6
99	Tetracoordinate Boron Materials for Biological Imaging 2018 , 111-140	5
98	Advances and Properties of Silanol-Based Materials 2018 , 141-162	2
97	Silole-Based Materials in Optoelectronics and Sensing 2018 , 163-195	6
96	Materials Containing Homocatenated Polysilanes 2018 , 197-208	4
95	Catenated Germanium and Tin Oligomers and Polymers 2018 , 209-236	8
94	On the reactivity of P-chloro dithieno[3,2-b:2',3'-d]phosphole oxide. <i>Canadian Journal of Chemistry</i> , 2018 , 96, 555-560	0.9 2

93	A Highly Stable Organic Radical Cation. <i>Organic Letters</i> , 2018 , 20, 8004-8008	6.2	15
92	An Unexpected Step-Conjugated Biphosphole via Unique P-B Bond Formation. <i>Chem</i> , 2018 , 4, 2628-2643	16.2	8
91	Synthesis and properties of electron accepting star-shaped phosphaviologen oligomers. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 717-723	5.2	4
90	Electron-accepting conjugated species with 1,8-naphthalic anhydride or diketophosphanil units. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2324-2334	7.8	11
89	Viologens and Their Application as Functional Materials. <i>Chemistry - A European Journal</i> , 2017 , 23, 16924-16940	16.45	15
88	Frontispiece: Viologens and Their Application as Functional Materials. <i>Chemistry - A European Journal</i> , 2017 , 23,	4.8	1
87	Water-Soluble Phosphaviologens for Effective Photoinduced Charge Separation. <i>Organometallics</i> , 2017 , 36, 2685-2691	3.8	3
86	Stimuli-responsive chromism in organophosphorus chemistry. <i>Dalton Transactions</i> , 2016 , 45, 1850-5	4.3	41
85	Xylene-Bridged Phosphaviologen Oligomers and Polymers as High-Performance Electrode-Modifiers for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600944	21.8	27
84	Cooperative Assembly of Phosphole Lipids and Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2016 , 28, 8407-8414	9.6	7
83	Tuning the aggregation-induced enhanced emission behavior and self-assembly of phosphole-lipids. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2936-2944	7.1	15
82	A structure-property study toward extended phosphole chromophores with ambipolar redox properties. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 297-304	0.9	1
81	Dithienophosphole-Based Phosphinamides with Intriguing Self-Assembly Behavior. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3481-5	16.4	31
80	Dithienophosphole-Based Phosphinamides with Intriguing Self-Assembly Behavior. <i>Angewandte Chemie</i> , 2016 , 128, 3542-3546	3.6	9
79	Synthesis and tunability of highly electron-accepting, N-benzylated "phosphaviologens". <i>Journal of the American Chemical Society</i> , 2015 , 137, 3366-71	16.4	89
78	A Convenient N-Arylation Route for Electron-Deficient Pyridines: The Case of Extended Electrochromic Phosphaviologens. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11710-7	16.4	87
77	Structure-property studies of P-triarylamine-substituted dithieno[3,2-b:2',3'-d]phospholes. <i>RSC Advances</i> , 2015 , 5, 93797-93807	3.7	9
76	P-Containing Heteroarenes: Synthesis, Properties, Applications 2015 , 309-330		5

75	Organophosphorus avenues toward self-assembled conjugated soft materials. <i>Chemical Record</i> , 2015 , 15, 199-217	6.6	14
74	Phosphorus-containing materials for organic electronics. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1212-25	4.5	114
73	Insights on the design and electron-acceptor properties of conjugated organophosphorus materials. <i>Accounts of Chemical Research</i> , 2014 , 47, 1613-22	24.3	287
72	P-Terthienyl-Functionalized Dithieno[3,2-b:2',3'-d]phospholes. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1767-1774	2.3	8
71	Synthesis and properties of cholesteric click-phospholes. <i>Organic Letters</i> , 2014 , 16, 1366-9	6.2	14
70	Molecular Engineering of Click-Phospholes Towards Self-Assembled Luminescent Soft Materials. <i>Advanced Functional Materials</i> , 2014 , 24, 897-906	15.6	39
69	Phosphinine lipids: a successful marriage between electron-acceptor and self-assembly features. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8990-4	16.4	26
68	Phosphinine Lipids: A Successful Marriage between Electron-Acceptor and Self-Assembly Features. <i>Angewandte Chemie</i> , 2013 , 125, 9160-9164	3.6	12
67	Synthesis and Properties of a Dicationic Extended Dithieno[3,2-c:2',3'-e]-2,7-diketophosphepin. <i>Organometallics</i> , 2013 , 32, 7625-7628	3.8	12
66	Synthesis of P-triazole dithienophospholes and a cyclodextrin-based sensor via click chemistry. <i>Organic Letters</i> , 2013 , 15, 5322-5	6.2	28
65	Dithieno[3,2-c:2',3'-e]-2,7-diketophosphepin: a unique building block for multifunctional conjugated materials. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1137-47	16.4	72
64	Perfluorophenylene-bridged bisphospholes: synthesis and unexpected photophysical properties. <i>Dalton Transactions</i> , 2013 , 42, 5314-21	4.3	19
63	Dithiazolo[5,4-b:4',5'-d]phosphole: a highly luminescent electron-accepting building block. <i>Chemistry - A European Journal</i> , 2013 , 19, 7620-30	4.8	46
62	Molecular Engineering of the Physical Properties of Highly Luminescent Conjugated Phospholes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4748-4758	3.8	25
61	Conjugated main-group polymers for optoelectronics. <i>RSC Advances</i> , 2013 , 3, 11334	3.7	141
60	Halochromic generation of white light emission using a single dithienophosphole luminophore. <i>Chemical Communications</i> , 2013 , 49, 4899-901	5.8	58
59	Organic n-type materials for charge transport and charge storage applications. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9007-24	3.6	70
58	Dithieno[3,2-b:2',3'-d]phospholes: A Look Back at the First Decade. <i>Synlett</i> , 2013 , 24, 920-937	2.2	61

57	Luminescent P-Benzyl Dithienophospholes [A Joint Experimental and Theoretical Investigation. <i>Australian Journal of Chemistry</i> , 2013 , 66, 1171	1.2	5
56	Structure-property studies toward the stimuli-responsive behavior of benzyl-phospholium acenes. <i>Inorganic Chemistry</i> , 2012 , 51, 2669-78	5.1	37
55	Charge-transfer properties of lateral triphenylamine-dithienophosphole diads. <i>Organic Letters</i> , 2012 , 14, 1588-91	6.2	17
54	Combining form with function--the dawn of phosphole-based functional materials. <i>Dalton Transactions</i> , 2012 , 41, 7792-800	4.3	173
53	Structure-Property Studies of Bichromophoric, PAH-Functionalized Dithieno[3,2-b:2',3'-d]phospholes. <i>Organometallics</i> , 2012 , 31, 2425-2436	3.8	20
52	Synthesis and unexpected halochromism of carbazole-functionalized dithienophospholes. <i>New Journal of Chemistry</i> , 2012 , 36, 1153	3.6	36
51	Bioinspirierte Phosphol-Lipide: von stark fluoreszierenden Organogelen zu mechanisch induziertem FRET. <i>Angewandte Chemie</i> , 2012 , 124, 4031-4035	3.6	30
50	Bio-inspired phosphole-lipids: from highly fluorescent organogels to mechanically responsive FRET. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3964-8	16.4	97
49	End-group functionalization of poly(3-hexylthiophene) as an efficient route to photosensitize nanocrystalline TiO ₂ films for photovoltaic applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2031-41	9.5	38
48	External-stimuli responsive photophysics and liquid crystal properties of self-assembled "phosphole-lipids". <i>Journal of the American Chemical Society</i> , 2011 , 133, 17014-26	16.4	131
47	Dually switchable heterotetracenes: addressing the photophysical properties and self-organization of the P-S system. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1328-40	16.4	106
46	Design and development of functionalized cyclometalated ruthenium chromophores for light-harvesting applications. <i>Inorganic Chemistry</i> , 2011 , 50, 5494-508	5.1	174
45	Band-gap engineering of polythiophenes via dithienophosphole doping. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 1201-1209	2.5	18
44	Room Temperature Multifunctional Organophosphorus Gels and Liquid Crystals. <i>Advanced Functional Materials</i> , 2011 , 21, 4088-4099	15.6	40
43	3,7-Diazadibenzophospholoxid [eine phosphorverbundene Viologenspezies mit signifikant verringertem Reduktionspotential. <i>Angewandte Chemie</i> , 2011 , 123, 8096-8100	3.6	16
42	3,7-Diazadibenzophosphole oxide: a phosphorus-bridged viologen analogue with significantly lowered reduction threshold. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7948-52	16.4	84
41	Azadibenzophospholes: functional building blocks with pronounced electron-acceptor character. <i>Inorganic Chemistry</i> , 2011 , 50, 6823-36	5.1	42
40	Anorganische Chemie 2009. <i>Nachrichten Aus Der Chemie</i> , 2010 , 58, 239-256	0.1	

39	Highly luminescent terpyridinyl-ethynyl functionalized dithieno[3,2-b:2',3'-d]phospholes: synthesis, properties and complexation behavior. <i>Dalton Transactions</i> , 2010 , 39, 1250-60	4.3	17
38	Synthesis and Photophysical Properties of Bipyridine-Extended Dithienophosphole Chromophores for Transition Metal Complexation. <i>Organometallics</i> , 2010 , 29, 3289-3297	3.8	10
37	Synthesis of π -extended thiadiazole (oxides) and their electronic properties. <i>Organic Letters</i> , 2010 , 12, 4520-3	6.2	35
36	Triphenylamine-modified ruthenium(II) terpyridine complexes: enhancement of light absorption by conjugated bridging motifs. <i>Inorganic Chemistry</i> , 2010 , 49, 5335-7	5.1	58
35	Solution growth of anatase TiO ₂ nanowires from transparent conducting glass substrates. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5063		54
34	Metal-rich organometallics. <i>Dalton Transactions</i> , 2010 , 39, 5759-67	4.3	7
33	Dithienophosphole-capped π -conjugated oligomers. <i>New Journal of Chemistry</i> , 2010 , 34, 1585	3.6	20
32	Ladder-type π -conjugated 4-hetero-1,4-dihydrophosphinines: a structure-property study. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1918-29	4.5	35
31	Structure-property relationships of acylated asymmetric dithienophospholes. <i>Comptes Rendus Chimie</i> , 2010 , 13, 971-979	2.7	11
30	Synthesis and Photophysical Properties of Donor-Acceptor Dithienophospholes. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 5225-5231	3.2	25
29	Extended 2,5-diazaphosphole oxides: promising electron-acceptor building blocks for π -conjugated organic materials. <i>Chemistry - A European Journal</i> , 2010 , 16, 7101-5	4.8	20
28	Simple and Efficient Generation of White Light Emission From Organophosphorus Building Blocks. <i>Advanced Functional Materials</i> , 2009 , 19, 3625-3631	15.6	87
27	Dendrimeric oligo(phenylenevinylene)-extended dithieno[3,2-b:2',3'-d]phospholes-synthesis, self-organization, and optical properties. <i>Chemistry - A European Journal</i> , 2009 , 15, 4135-45	4.8	59
26	Tuning the Photophysical Properties and Solid-State Organization of Perfluorophenyl-functionalized Dithieno[3,2-b:2',3'-d]phospholes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009 , 635, 238-244	1.3	27
25	Highly Fluorinated Dithieno[3,2-b:2',3'-d]phospholes with Stabilized LUMO Levels. <i>Organometallics</i> , 2009 , 28, 734-740	3.8	76
24	Synthesis and properties of ladder-type 1,4-dihydro-1,4-phosphasilins. <i>Canadian Journal of Chemistry</i> , 2009 , 87, 1222-1229	0.9	13
23	2,6-Bis(tributyltin)benzo[1,2-b:5,4-b']dithiophene: a new synthon for organic semiconductors. <i>Arkivoc</i> , 2009 , 2009, 90-101	0.9	3
22	Toward low-band gap dithienophosphole copolymers for an application in organic solar cells. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 8179-8190	2.5	35

21	Phosphorus-based heteropentacenes: efficiently tunable materials for organic n-type semiconductors. <i>Chemistry - A European Journal</i> , 2008 , 14, 9878-89	4.8	119
20	A new polymorph of dimesitylborinic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008 , 64, o1185		1
19	Selective tuning of the band gap of pi-conjugated dithieno[3,2-b:2',3'-d]phospholes toward different emission colors. <i>Chemistry - A European Journal</i> , 2007 , 13, 7487-500	4.8	173
18	Recent Developments in Phosphole-Containing Oligo- and Polythiophene Materials. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3611-3628	2.3	121
17	Organophosphorus pi-conjugated materials. <i>Chemical Reviews</i> , 2006 , 106, 4681-727	68.1	839
16	Cationic dithieno[3,2-b:2',3'-d]phospholes: a new building block for luminescent, conjugated polyelectrolytes. <i>Organic Letters</i> , 2006 , 8, 5893-6	6.2	83
15	Synthesis and optoelectronic properties of transition metal complexes incorporating dithieno[3,2-b:2',3'-d]phosphole ligands. <i>Dalton Transactions</i> , 2006 , 1424-33	4.3	52
14	Redox-Active, Multinuclear (Ferrocenylethynyl)phosphanes and Their Palladium and Platinum Complexes. <i>Organometallics</i> , 2006 , 25, 5657-5664	3.8	25
13	Synthesis and unexpected reactivity of Si-H functionalized dithieno[3,2-b:2',3'-d]phospholes. <i>Organic Letters</i> , 2006 , 8, 503-6	6.2	48
12	Highly sensitive sensory materials for fluoride ions based on the dithieno[3,2-b:2',3'-d]phosphole system. <i>Organic Letters</i> , 2006 , 8, 495-7	6.2	88
11	Synthesis and X-ray single-crystal structure study of 5,5'-bis(silyl)-functionalized 3,3'-dibromo-2,2'-dithiophenes. <i>Applied Organometallic Chemistry</i> , 2005 , 19, 859-863	3.1	4
10	From model compounds to extended pi-conjugated systems: synthesis and properties of dithieno[3,2-b:2',3'-d]phospholes. <i>Chemistry - A European Journal</i> , 2005 , 11, 4687-99	4.8	154
9	(pi)-Conjugated Heterocyclic fused Bithiophene Materials. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2005 , 15, 389-409	3.2	41
8	The dithieno[3,2-b:2',3'-d]phosphole system: a novel building block for highly luminescent pi-conjugated materials. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6197-201	16.4	185
7	Das Dithieno[3,2-b:2',3'-d]phosphol-System: ein neuartiger Baustein für stark lumineszierende konjugierte Materialien. <i>Angewandte Chemie</i> , 2004 , 116, 6323-6328	3.6	69
6	Synthesis and properties of new phosphorus-functionalized bithiophene materials. <i>Macromolecular Symposia</i> , 2003 , 196, 279-288	0.8	13
5	Metallochain cluster complexes and metallomacrocylic triangles based on coordination bonds between palladium or platinum and diphosphinoacetylene ligands. <i>Chemistry - A European Journal</i> , 2002 , 8, 4622-32	4.8	36
4	Unusual Approaches to Organophosphorus Compounds: The Surprising Reactivity of Bis(methylene)phosphoranes and Related Phosphoranylidene Carbenoids. <i>Organometallics</i> , 2002 , 21, 4919-4926	3.8	14

- 3 Nucleophilically assisted and cationic ring-opening polymerization of tin-bridged [1]ferrocenophanes. *Journal of the American Chemical Society*, **2002**, 124, 10062-70 16.4 56
- 2 Lithium Phosphoranylidene Carbenoids $\text{Mes}^*\text{-P(E)C(X)Li(THF)}_3$ (E = NMes^* , $\text{C}(\text{SiMe}_3)_2$; X = Br, Cl, F): Synthesis and Structural Investigations in Solution and Solid State. *Journal of the American Chemical Society*, **1999**, 121, 5953-5960 16.4 21
- 1 Lithium Phosphoranylidene Ylides $\text{Mes}^*\text{-P(E)C(H)Li(THF)}_3$ (E = NMes^* , $\text{C}(\text{SiMe}_3)_2$): Synthesis, Crystal Structure, and Transmetalation. *Journal of the American Chemical Society*, **1997**, 119, 12410-12411 16.4 26