

# Thomas Baumgartner

## List of Publications by Citations

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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	Organophosphorus pi-conjugated materials. <i>Chemical Reviews</i> , <b>2006</b> , 106, 4681-727	68.1	839
127	Insights on the design and electron-acceptor properties of conjugated organophosphorus materials. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 1613-22	24.3	287
126	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> , <b>2004</b> , 43, 6197-201	16.4	185
125	Design and development of functionalized cyclometalated ruthenium chromophores for light-harvesting applications. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 5494-508	5.1	174
124	Combining form with function--the dawn of phosphole-based functional materials. <i>Dalton Transactions</i> , <b>2012</b> , 41, 7792-800	4.3	173
123	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> , <b>2007</b> , 13, 7487-500	4.8	173
122	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> , <b>2005</b> , 11, 4687-99	4.8	154
121	Viologens and Their Application as Functional Materials. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16924-16940	4.5	145
120	Conjugated main-group polymers for optoelectronics. <i>RSC Advances</i> , <b>2013</b> , 3, 11334	3.7	141
119	External-stimuli responsive photophysics and liquid crystal properties of self-assembled "phosphole-lipids". <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17014-26	16.4	131
118	Recent Developments in Phosphole-Containing Oligo- and Polythiophene Materials. <i>European Journal of Inorganic Chemistry</i> , <b>2007</b> , 2007, 3611-3628	2.3	121
117	Phosphorus-based heteropentacenes: efficiently tunable materials for organic n-type semiconductors. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 9878-89	4.8	119
116	Phosphorus-containing materials for organic electronics. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 1212-25	4.5	114
115	Dually switchable heterotetracenes: addressing the photophysical properties and self-organization of the P-S system. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1328-40	16.4	106
114	Bio-inspired phosphole-lipids: from highly fluorescent organogels to mechanically responsive FRET. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3964-8	16.4	97
113	Synthesis and tunability of highly electron-accepting, N-benzylated "phosphaviologens". <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3366-71	16.4	89
112	Highly sensitive sensory materials for fluoride ions based on the dithieno[3,2-b:2',3'-d]phosphole system. <i>Organic Letters</i> , <b>2006</b> , 8, 495-7	6.2	88

111	A Convenient N-Arylation Route for Electron-Deficient Pyridines: The Case of $\pi$ -Extended Electrochromic Phosphaviologens. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11710-7	16.4	87
110	Simple and Efficient Generation of White Light Emission From Organophosphorus Building Blocks. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3625-3631	15.6	87
109	3,7-Diazadibenzophosphole oxide: a phosphorus-bridged viologen analogue with significantly lowered reduction threshold. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7948-52	16.4	84
108	Cationic dithieno[3,2-b:2',3'-d]phospholes: a new building block for luminescent, conjugated polyelectrolytes. <i>Organic Letters</i> , <b>2006</b> , 8, 5893-6	6.2	83
107	Highly Fluorinated Dithieno[3,2-b:2',3'-d]phospholes with Stabilized LUMO Levels. <i>Organometallics</i> , <b>2009</b> , 28, 734-740	3.8	76
106	Dithieno[3,2-c:2',3'-e]-2,7-diketophosphepin: a unique building block for multifunctional $\pi$ -conjugated materials. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1137-47	16.4	72
105	Organic n-type materials for charge transport and charge storage applications. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 9007-24	3.6	70
104	Das Dithieno[3,2-b:2',3'-d]phosphol-System: ein neuartiger Baustein für stark lumineszierende $\pi$ -konjugierte Materialien. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 6323-6328	3.6	69
103	Dithieno[3,2-b:2',3'-d]phospholes: A Look Back at the First Decade. <i>Synlett</i> , <b>2013</b> , 24, 920-937	2.2	61
102	Dendrimeric oligo(phenylenevinylene)-extended dithieno[3,2-b:2',3'-d]phospholes-synthesis, self-organization, and optical properties. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 4135-45	4.8	59
101	Halochromic generation of white light emission using a single dithienophosphole luminophore. <i>Chemical Communications</i> , <b>2013</b> , 49, 4899-901	5.8	58
100	Triphenylamine-modified ruthenium(II) terpyridine complexes: enhancement of light absorption by conjugated bridging motifs. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 5335-7	5.1	58
99	Nucleophilically assisted and cationic ring-opening polymerization of tin-bridged [1]ferrocenophanes. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10062-70	16.4	56
98	Solution growth of anatase TiO <sub>2</sub> nanowires from transparent conducting glass substrates. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5063		54
97	Synthesis and optoelectronic properties of transition metal complexes incorporating dithieno[3,2-b:2',3'-d]phosphole ligands. <i>Dalton Transactions</i> , <b>2006</b> , 1424-33	4.3	52
96	Synthesis and unexpected reactivity of Si-H functionalized dithieno[3,2-b:2',3'-d]phospholes. <i>Organic Letters</i> , <b>2006</b> , 8, 503-6	6.2	48
95	Dithiazolo[5,4-b:4',5'-d]phosphole: a highly luminescent electron-accepting building block. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7620-30	4.8	46
94	Azadibenzophospholes: functional building blocks with pronounced electron-acceptor character. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 6823-36	5.1	42

93	Stimuli-responsive chromism in organophosphorus chemistry. <i>Dalton Transactions</i> , <b>2016</b> , 45, 1850-5	4.3	41
92	( $\pi$ )-Conjugated Heterocyclic fused Bithiophene Materials. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2005</b> , 15, 389-409	3.2	41
91	Room Temperature Multifunctional Organophosphorus Gels and Liquid Crystals. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4088-4099	15.6	40
90	Molecular Engineering of Click-Phospholes Towards Self-Assembled Luminescent Soft Materials. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 897-906	15.6	39
89	End-group functionalization of poly(3-hexylthiophene) as an efficient route to photosensitize nanocrystalline TiO <sub>2</sub> films for photovoltaic applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2031-41	9.5	38
88	Structure-property studies toward the stimuli-responsive behavior of benzyl-phosphonium acenes. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 2669-78	5.1	37
87	Synthesis and unexpected halochromism of carbazole-functionalized dithienophospholes. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 1153	3.6	36
86	Metallochain cluster complexes and metallomacrocyclic triangles based on coordination bonds between palladium or platinum and diphosphinoacetylene ligands. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 4622-32	4.8	36
85	A Simple and Effective Method of Determining Lewis Acidity by Using Fluorescence. <i>Chem</i> , <b>2019</b> , 5, 1567-1583	6.583	35
84	Synthesis of Extended thiadiazole (oxides) and their electronic properties. <i>Organic Letters</i> , <b>2010</b> , 12, 4520-3	6.2	35
83	Ladder-type $\pi$ -conjugated 4-hetero-1,4-dihydrophosphinines: a structure-property study. <i>Chemistry - an Asian Journal</i> , <b>2010</b> , 5, 1918-29	4.5	35
82	Toward low-band gap dithienophosphole copolymers for an application in organic solar cells. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 8179-8190	2.5	35
81	Dithienophosphole-Based Phosphinamides with Intriguing Self-Assembly Behavior. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3481-5	16.4	31
80	Bioinspirierte Phosphol-Lipide: von stark fluoreszierenden Organogelen zu mechanisch induziertem FRET. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 4031-4035	3.6	30
79	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> , <b>2019</b> , 2, 1229-1240	6.1	30
78	Functional conjugated pyridines via main-group element tuning. <i>Chemical Communications</i> , <b>2018</b> , 54, 3311-3322	5.8	29
77	Dithienophosphole-based molecular electron acceptors constructed using direct (hetero)arylation cross-coupling methods. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2148-2154	7.1	29
76	Synthesis of P-triazole dithienophospholes and a cyclodextrin-based sensor via click chemistry. <i>Organic Letters</i> , <b>2013</b> , 15, 5322-5	6.2	28

75	Xylene-Bridged Phosphaviologen Oligomers and Polymers as High-Performance Electrode-Modifiers for Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600944	21.8	27
74	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> , <b>2009</b> , 635, 238-244	1.3	27
73	Phosphinine lipids: a successful marriage between electron-acceptor and self-assembly features. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8990-4	16.4	26
72	Lithium Phosphoranylidene Ylides Mes <sup>*</sup> -P(E)C(H)Li(THF) <sub>3</sub> (E = NMe <sup>*</sup> , C(SiMe <sub>3</sub> ) <sub>2</sub> ): Synthesis, Crystal Structure, and Transmetalation. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 12410-12411	16.4	26
71	Molecular Engineering of the Physical Properties of Highly Luminescent $\pi$ -Conjugated Phospholes. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4748-4758	3.8	25
70	Synthesis and Photophysical Properties of Donor-Acceptor Dithienophospholes. <i>European Journal of Organic Chemistry</i> , <b>2010</b> , 2010, 5225-5231	3.2	25
69	Redox-Active, Multinuclear (Ferrocenylethynyl)phosphanes and Their Palladium and Platinum Complexes. <i>Organometallics</i> , <b>2006</b> , 25, 5657-5664	3.8	25
68	Lithium Phosphoranylidene Carbenoids Mes <sup>*</sup> -P(E)C(X)Li(THF) <sub>3</sub> (E = NMe <sup>*</sup> , C(SiMe <sub>3</sub> ) <sub>2</sub> ; X = Br, Cl, F): Synthesis and Structural Investigations in Solution and Solid State. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 5953-5960	16.4	21
67	Structure-Property Studies of Bichromophoric, PAH-Functionalized Dithieno[3,2-b:2',3'-d]phospholes. <i>Organometallics</i> , <b>2012</b> , 31, 2425-2436	3.8	20
66	Dithienophosphole-capped $\pi$ -conjugated oligomers. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 1585	3.6	20
65	Extended 2,5-diazaphosphole oxides: promising electron-acceptor building blocks for $\pi$ -conjugated organic materials. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 7101-5	4.8	20
64	Perfluorophenylene-bridged bisphospholes: synthesis and unexpected photophysical properties. <i>Dalton Transactions</i> , <b>2013</b> , 42, 5314-21	4.3	19
63	Band-gap engineering of polythiophenes via dithienophosphole doping. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 1201-1209	2.5	18
62	Charge-transfer properties of lateral triphenylamine-dithienophosphole diads. <i>Organic Letters</i> , <b>2012</b> , 14, 1588-91	6.2	17
61	Highly luminescent terpyridinyl-ethynyl functionalized dithieno[3,2-b:2',3'-d]phospholes: synthesis, properties and complexation behavior. <i>Dalton Transactions</i> , <b>2010</b> , 39, 1250-60	4.3	17
60	3,7-Diazadibenzophospholoxid -eine phosphorverbundene Viologenspezies mit signifikant verringertem Reduktionspotential. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 8096-8100	3.6	16
59	Tuning the aggregation-induced enhanced emission behavior and self-assembly of phosphole-lipids. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2936-2944	7.1	15
58	A Highly Stable Organic Radical Cation. <i>Organic Letters</i> , <b>2018</b> , 20, 8004-8008	6.2	15

57	Synthesis and properties of cholesteric click-phospholes. <i>Organic Letters</i> , <b>2014</b> , 16, 1366-9	6.2	14
56	Organophosphorus avenues toward self-assembled conjugated soft materials. <i>Chemical Record</i> , <b>2015</b> , 15, 199-217	6.6	14
55	Unusual Approaches to Organophosphorus Compounds: The Surprising Reactivity of Bis(methylene)phosphoranes and Related Phosphoranylidene Carbenoids. <i>Organometallics</i> , <b>2002</b> , 21, 4919-4926	3.8	14
54	Photoresponsive Organoboron Systems <b>2018</b> , 47-77		13
53	Synthesis and properties of ladder-type 1,4-dihydro-1,4-phosphasilins. <i>Canadian Journal of Chemistry</i> , <b>2009</b> , 87, 1222-1229	0.9	13
52	Synthesis and properties of new phosphorus-functionalized bithiophene materials. <i>Macromolecular Symposia</i> , <b>2003</b> , 196, 279-288	0.8	13
51	Exploration of Hypervalent Lewis Acid/Base Interactions in 2-(2'-Thiazoly)-3-thienylphosphanes. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 1630-1644	5.1	12
50	Phosphinine Lipids: A Successful Marriage between Electron-Acceptor and Self-Assembly Features. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 9160-9164	3.6	12
49	Synthesis and Properties of a Dicationic $\pi$ -Extended Dithieno[3,2-c:2',3'-e]-2,7-diketophosphepin. <i>Organometallics</i> , <b>2013</b> , 32, 7625-7628	3.8	12
48	Lewis acids and bases as molecular dopants for organic semiconductors. <i>Journal of Physical Organic Chemistry</i> , <b>2020</b> , 33, e4077	2.1	11
47	Electron-accepting $\pi$ -conjugated species with 1,8-naphthalic anhydride or diketophosphanyl units. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2324-2334	7.8	11
46	Structure-property relationships of acylated asymmetric dithienophospholes. <i>Comptes Rendus Chimie</i> , <b>2010</b> , 13, 971-979	2.7	11
45	Synthesis and Photophysical Properties of Bipyridine-Extended Dithienophosphole Chromophores for Transition Metal Complexation. <i>Organometallics</i> , <b>2010</b> , 29, 3289-3297	3.8	10
44	Poly(5-vinylbenzothiadiazole) for High-Performance Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7315-7320	6.1	9
43	Structure-property studies of P-triarylamine-substituted dithieno[3,2-b:2',3'-d]phospholes. <i>RSC Advances</i> , <b>2015</b> , 5, 93797-93807	3.7	9
42	Applications of Phosphorus-Based Materials in Optoelectronics <b>2018</b> , 295-327		9
41	Dithienophosphole-Based Phosphinamides with Intriguing Self-Assembly Behavior. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3542-3546	3.6	9
40	Incorporation of Boron into $\pi$ -Conjugated Scaffolds to Produce Electron-Accepting $\pi$ -Electron Systems <b>2018</b> , 1-26		8

39	Arsenic-Containing Oligomers and Polymers <b>2018</b> , 383-403		8
38	Catenated Germanium and Tin Oligomers and Polymers <b>2018</b> , 209-236		8
37	P-Terthienyl-Functionalized Dithieno[3,2-b:2',3'-d]phospholes. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 1767-1774	2.3	8
36	An Unexpected Step-Conjugated Biphosphole via Unique P-B Bond Formation. <i>Chem</i> , <b>2018</b> , 4, 2628-2643	16.2	8
35	Cooperative Assembly of Phosphole Lipids and Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8407-8414	9.6	7
34	Metal-rich organometallics. <i>Dalton Transactions</i> , <b>2010</b> , 39, 5759-67	4.3	7
33	Incorporation of Group 13 Elements into Polymers <b>2018</b> , 79-110		6
32	Silole-Based Materials in Optoelectronics and Sensing <b>2018</b> , 163-195		6
31	Phosphaviologen-Based Pyrene-Carbon Nanotube Composites for Stable Battery Electrodes. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 268-274	5.6	6
30	Phosphoryl- and phosphonium-bridged viologens as stable two- and three-electron acceptors for organic electrodes. <i>Chemical Science</i> , <b>2020</b> , 11, 10483-10487	9.4	6
29	Germanium and Tin in Conjugated Organic Materials <b>2018</b> , 237-264		5
28	Tetracoordinate Boron Materials for Biological Imaging <b>2018</b> , 111-140		5
27	P-Containing Heteroarenes: Synthesis, Properties, Applications <b>2015</b> , 309-330		5
26	Luminescent P-Benzyl Dithienophospholes: A Joint Experimental and Theoretical Investigation. <i>Australian Journal of Chemistry</i> , <b>2013</b> , 66, 1171	1.2	5
25	Fluorescent Lewis Adducts: A Practical Guide to Relative Lewis Acidity. <i>Organometallics</i> , <b>2020</b> , 39, 3645-3655	3.65	5
24	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> , <b>2021</b> , 12, 6333-6341	8.4	5
23	Synthesis and properties of electron accepting star-shaped phosphaviologen oligomers. <i>Organic Chemistry Frontiers</i> , <b>2017</b> , 4, 717-723	5.2	4
22	Phosphorus-Based Porphyrins <b>2018</b> , 265-293		4

21	Synthons for the Development of New Organophosphorus Functional Materials <b>2018</b> , 357-382		4
20	Hypervalent Iodine Compounds in Polymer Science and Technology <b>2018</b> , 483-514		4
19	Organoborane Donor/Acceptor Materials <b>2018</b> , 27-45		4
18	Materials Containing Homocatenated Polysilanes <b>2018</b> , 197-208		4
17	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> , <b>2005</b> , 19, 859-863	3.1	4
16	Synthesis of a Trivalent P-Chloro-Dithienophosphole and Its Reactivity with Organometallic Reagents. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 1612-1620	2.3	4
15	Antimony- and Bismuth-Based Materials and Applications <b>2018</b> , 405-432		3
14	Main-Chain, Phosphorus-Based Polymers <b>2018</b> , 329-355		3
13	Water-Soluble Phosphaviologens for Effective Photoinduced Charge Separation. <i>Organometallics</i> , <b>2017</b> , 36, 2685-2691	3.8	3
12	2,6-Bis(tributyltin)benzo[1,2-b:5,4-b']dithiophene: a new synthon for organic semiconductors. <i>Arkivoc</i> , <b>2009</b> , 2009, 90-101	0.9	3
11	Structure-reactivity studies on hypervalent square-pyramidal dithieno[3,2-b:2',3'-d]phospholes. <i>Dalton Transactions</i> , <b>2021</b> , 50, 2243-2252	4.3	3
10	Selenium and Tellurium Containing Conjugated Polymers <b>2018</b> , 451-482		2
9	Advances and Properties of Silanol-Based Materials <b>2018</b> , 141-162		2
8	On the reactivity of P-chloro dithieno[3,2-b:2',3'-d]phosphole oxide. <i>Canadian Journal of Chemistry</i> , <b>2018</b> , 96, 555-560	0.9	2
7	Highly Luminescent 4-Pyridyl-Extended Dithieno[3,2-b:2',3'-d]phospholes. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 14627-14633	4.2	2
6	A structure-property study toward $\pi$ -extended phosphole chromophores with ambipolar redox properties. <i>Canadian Journal of Chemistry</i> , <b>2016</b> , 94, 297-304	0.9	1
5	Frontispiece: Viologens and Their Application as Functional Materials. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23,	4.8	1
4	A new polymorph of dimesitylborinic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 64, o1185		1



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|---|---|-----|-----|
| 3 | High Sulfur Content Organic/Inorganic Hybrid Polymeric Materials <b>2018</b> , 433-450  |     | 0   |
| 2 | Conjugated Polymers with Benzoyl-N-methylpyridinium Units: An Effective Design Strategy for High-Performance Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4596-4605 | 9.6 | 0   |
| 1 | Anorganische Chemie 2009. <i>Nachrichten Aus Der Chemie</i> , <b>2010</b> , 58, 239-256   |     | 0.1 |