

# Milan Kivala

## List of Publications by Year in descending order

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80  
papers

3,431  
citations

172457

29  
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144013

57  
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89  
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89  
docs citations

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times ranked

4102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acetylene-Derived Strong Organic Acceptors for Planar and Nonplanar Push~Pull Chromophores. <i>Accounts of Chemical Research</i> , 2009, 42, 235-248.	15.6	368
2	All~Carbon Scaffolds by Rational Design. <i>Advanced Materials</i> , 2010, 22, 803-812.	21.0	316
3	Long-range energy transport in single supramolecular nanofibres at room temperature. <i>Nature</i> , 2015, 523, 196-199.	27.8	278
4	Surface-supported 2D heterotriangulene polymers. <i>Chemical Communications</i> , 2011, 47, 10239.	4.1	147
5	Organic Super~Acceptors with Efficient Intramolecular Charge~Transfer Interactions by [2+2] Cycloadditions of TCNE, TCNQ, and F<sub>4</sub>~TCNQ to Donor~Substituted Cyanoalkynes. <i>Chemistry - A European Journal</i> , 2009, 15, 4111-4123.	3.3	127
6	Pathway Complexity in the Enantioselective Self-Assembly of Functional Carbonyl-Bridged Triarylamine Trisamides. <i>Journal of the American Chemical Society</i> , 2016, 138, 10539-10545.	13.7	127
7	A novel reaction of 7,7,8,8-tetracyanoquinodimethane (TCNQ): charge-transfer chromophores by [2 + 2] cycloaddition with alkynes. <i>Chemical Communications</i> , 2007, , 4731.	4.1	123
8	Charge~Transfer Chromophores by Cycloaddition~Retro~electrocyclization: Multivalent Systems and Cascade Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6357-6360.	13.8	121
9	Hierarchical on-surface synthesis and electronic structure of carbonyl-functionalized one- and two-dimensional covalent nanoarchitectures. <i>Nature Communications</i> , 2017, 8, 14765.	12.8	120
10	Origin of Intense Intramolecular Charge~Transfer Interactions in Nonplanar Push~Pull Chromophores. <i>Chemistry - A European Journal</i> , 2009, 15, 8687-8691.	3.3	106
11	New strong organic acceptors by cycloaddition of TCNE and TCNQ to donor-substituted cyanoalkynes. <i>Chemical Communications</i> , 2007, , 4898.	4.1	88
12	Impact of Electronic Coupling, Symmetry, and Planarization on One- and Two-Photon Properties of Triarylmines with One, Two, or Three Diarylboryl Acceptors. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3781-3793.	2.5	88
13	~Conjugated Heterotriangulene Macrocycles by Solution and Surface-supported Synthesis toward Honeycomb Networks. <i>Journal of the American Chemical Society</i> , 2013, 135, 4550-4557.	13.7	88
14	Solvatochromism as an efficient tool to study <i>N</i>, <i>N</i>~dimethylamino~and cyano~substituted <i>~conjugated molecules with an intramolecular charge~transfer absorption. <i>Journal of Physical Organic Chemistry</i> , 2011, 24, 274-281.	1.9	66
15	Switching the Regioselectivity in Cycloaddition~Retro~Electrocyclizations between Donor~Activated Alkynes and the Electron~Accepting Olefins TCNE and TCNQ. <i>Chemistry - an Asian Journal</i> , 2011, 6, 396-401.	3.3	56
16	One~Electron~Reduced and ~Oxidized Stages of Donor~Substituted 1,1,4,4~Tetracyanobuta~1,3~dienes of Different Molecular Architectures. <i>Chemistry - A European Journal</i> , 2008, 14, 7638-7647.	3.3	53
17	Cyano~Functionalized Triarylmines on Au(111): Competing Intermolecular versus Molecule/Substrate Interactions. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300025.	3.7	52
18	Conjugation and optoelectronic properties of acetylenic scaffolds and charge-transfer chromophores. <i>Pure and Applied Chemistry</i> , 2008, 80, 411-427.	1.9	49

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19	Two-Dimensional Acetylenic Scaffolding: Extended Donor-Substituted Perethynylated Dehydroannulenes. <i>Chemistry - an Asian Journal</i> , 2006, 1, 479-489.	3.3	43
20	Columnar Self-Assembly in Electron-Deficient Heterotriangulenes. <i>Chemistry - A European Journal</i> , 2013, 19, 8117-8128.	3.3	37
21	Chiral and Achiral Charge-Transfer Chromophores with a Dendralene-Type Backbone by Electronically Controlled Cycloaddition/Cycloreversion Cascades. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 2487-2503.	2.4	36
22	<i>N</i> -Heterotriangulenes: Fascinating Relatives of Triphenylamine. <i>Chemical Record</i> , 2015, 15, 1119-1131.	5.8	34
23	Bridged triarylboranes, silanes, amines, and phosphines as minimalistic heteroatom-containing polycyclic aromatic hydrocarbons: Progress and challenges. <i>Journal of Physical Organic Chemistry</i> , 2020, 33, e4022.	1.9	34
24	Multicomponent Self-Assembly with a Shape-Persistent <i>N</i> -Heterotriangulene Macrocycle on Au(111). <i>Chemistry - A European Journal</i> , 2015, 21, 1652-1659.	3.3	33
25	Doped Polycyclic Aromatic Hydrocarbons as Building Blocks for Nanoelectronics: A Theoretical Study. <i>Journal of Organic Chemistry</i> , 2013, 78, 1894-1902.	3.2	32
26	Surface-confined [2 + 2] cycloaddition towards one-dimensional polymers featuring cyclobutadiene units. <i>Nanoscale</i> , 2017, 9, 18305-18310.	5.6	32
27	Two-dimensional delocalized states in organometallic bis-acetylide networks on Ag(111). <i>Nanoscale</i> , 2018, 10, 3769-3776.	5.6	32
28	A Stable Crystalline Triarylphosphine Oxide Radical Anion. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13597-13601.	13.8	31
29	Cyano-Functionalized Triarylamines on Coinage Metal Surfaces: Interplay of Intermolecular and Molecule-Substrate Interactions. <i>Chemistry - A European Journal</i> , 2016, 22, 581-589.	3.3	30
30	Regular Acyclic and Macrocyclic [AB] Oligomers by Formation of Push-Pull Chromophores in the Chain-Growth Step. <i>Chemistry - A European Journal</i> , 2011, 17, 6088-6097.	3.3	29
31	Configurationally Stable Chiral Dithia-Bridged Hetero[4]helicene Radical Cation: Electronic Structure and Absolute Configuration. <i>Chemistry - an Asian Journal</i> , 2017, 12, 31-35.	3.3	29
32	Organic Electron Acceptors Comprising a Dicyanomethylene-Bridged Acridophosphine Scaffold: The Impact of the Heteroatom. <i>Chemistry - A European Journal</i> , 2017, 23, 6988-6992.	3.3	28
33	<i>N</i> , <i>N'</i> -Dicyanoquinone Diimide-Derived Donor-Acceptor Chromophores: Conformational Analysis and Optoelectronic Properties. <i>Organic Letters</i> , 2012, 14, 54-57.	4.6	27
34	A heterotriangulene polymer for air-stable organic field-effect transistors. <i>Polymer Chemistry</i> , 2013, 4, 5337.	3.9	25
35	A Spherically Shielded Triphenylamine and Its Persistent Radical Cation. <i>Chemistry - A European Journal</i> , 2020, 26, 3264-3269.	3.3	23
36	A new group of monoquaternary reactivators of acetylcholinesterase inhibited by nerve agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005, 20, 233-237.	5.2	22

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37	Dipâ€Coatingâ€Induced Fiber Growth of a Soluble Heterotriangulene. <i>ChemPhysChem</i> , 2011, 12, 1648-1651.	2.1	21
38	Switchable Charge Injection Barrier in an Organic Supramolecular Semiconductor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15535-15542.	8.0	21
39	Onâ€Surface Assembly of Hydrogenâ€and Halogenâ€Bonded Supramolecular Graphyneâ€Like Networks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9549-9555.	13.8	21
40	Cleavage of 4-Nitrophenyl Diphenyl Phosphate by Isomeric Quaternary Pyridinium Ketoximes - How Can Structure and Lipophilicity of Functional Surfactants Influence Their Reactivity in Micelles and Microemulsions?. <i>Collection of Czechoslovak Chemical Communications</i> , 2006, 71, 1642-1658.	1.0	20
41	N-Heterotriangulene chromophores with 4-pyridyl anchors for dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 67372-67377.	3.6	20
42	Quantum Chemical Dissection of the Shortest P=Oâ€...â€I Halogen Bond: The Decisive Role of Crystal Packing Effects. <i>Chemistry - A European Journal</i> , 2017, 23, 5687-5691.	3.3	20
43	Platinum(II) Acetylides in the Formal [2+2] Cycloadditionâ€Retroelectrocyclization Reaction: Organodonor Versus Metal Activation. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3729-3740.	2.4	19
44	Synthesis and Photophysical Properties of Multichromophoric Carbonylâ€Bridged Triarylamines. <i>Chemistry - A European Journal</i> , 2014, 20, 11708-11718.	3.3	19
45	Isomeric Dithienophosphepines: The Impact of Ring Fusion on Electronic and Structural Properties. <i>Chemistry - A European Journal</i> , 2020, 26, 3474-3478.	3.3	19
46	Metalated Graphyne-Based Networks as Two-Dimensional Materials: Crystallization, Topological Defects, Delocalized Electronic States, and Site-Specific Doping. <i>ACS Nano</i> , 2020, 14, 16887-16896.	14.6	17
47	Reduction of Ĩâ€Expanded Cyclooctatetraene with Lithium: Stabilization of the Tetraâ€Anion through Internal Li<sup>+</sup> Coordination. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3510-3514.	13.8	17
48	Phosphorusâ€Containing Dibenzonaphthanthrenes: Electronic Fine Tuning of Polycyclic Aromatic Hydrocarbons through Organophosphorus Chemistry. <i>Chemistry - A European Journal</i> , 2020, 26, 13157-13162.	3.3	15
49	Synthesis and Properties of Arylvinylidene-Bridged Triphenylamines. <i>Journal of Organic Chemistry</i> , 2015, 80, 2418-2424.	3.2	14
50	Self-Assembly and Stability of Hydrogen-Bonded Networks of Bridged Triphenylamines on Au(111) and Cu(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 25945-25955.	3.1	13
51	Ein stabiles kristallines Triarylphosphinoxidradikalanion. <i>Angewandte Chemie</i> , 2016, 128, 13795-13799.	2.0	13
52	Photophysics of two Prototypical Molecularâ€Wire Building Blocks: Solventâ€Induced Conformational Dynamics?. <i>ChemPhysChem</i> , 2010, 11, 1700-1710.	2.1	12
53	Preâ€Planarized Triphenylamineâ€Based Linear Mixedâ€Valence Chargeâ€Transfer Systems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6771-6777.	13.8	11
54	Fully Bridged Triphenylamines Comprising Fiveâ€and Sevenâ€Membered Rings. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	11

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55	Donor-Substituted Diphenylacetylene Derivatives Act as Electron Donors and Acceptors. <i>Journal of Organic Chemistry</i> , 2011, 76, 5628-5635.	3.2	10
56	Triphenylene-Derived Electron Acceptors and Donors on Ag(111): Formation of Intermolecular Charge-Transfer Complexes with Common Unoccupied Molecular States. <i>Small</i> , 2019, 15, e1901741.	10.0	10
57	The Impact of Aggregation on the Photophysics of Spiro-Bridged Heterotriangulenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16233-16240.	13.8	10
58	Reduction of $\pi$ -Expanded Cyclooctatetraene with Lithium: Stabilization of the Tetra-Anion through Internal Li + Coordination. <i>Angewandte Chemie</i> , 2021, 133, 3552-3556.	2.0	10
59	Stability of Odd-Versus Even-Electron Gas-Phase (Quasi)Molecular Ions Derived from Pyridine-Substituted N-Heterotriangulenes. <i>ChemPlusChem</i> , 2017, 82, 204-211.	2.8	9
60	Reversible structural rearrangement of $\pi$ -expanded cyclooctatetraene upon two-fold reduction with alkali metals. <i>Chemical Communications</i> , 2022, 58, 3206-3209.	4.1	9
61	Dithiafulvenyl-Extended $\pi$ -Heterotriangulenes and Their Interaction with $C_{60}$ : Cooperative Fluorescence. <i>Chemistry - A European Journal</i> , 2017, 23, 12353-12362.	3.3	8
62	5,7,12,14-Tetrafunctionalized 6,13-Diazapentacenes. <i>Chemistry - A European Journal</i> , 2020, 26, 799-803.	3.3	8
63	A Chiral Molecular Cage Comprising Diethynylallenes and $\pi$ -Heterotriangulenes for Enantioselective Recognition. <i>Chemistry - A European Journal</i> , 2021, 27, 13352-13357.	3.3	8
64	Inducing Curvature to Pyracylene upon $\pi$ -Expansion. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	8
65	Binary supramolecular networks of bridged triphenylamines with different substituents and identical scaffolds. <i>Chemical Communications</i> , 2018, 54, 11554-11557.	4.1	7
66	Der Einfluss von Aggregation auf die Photophysik von spiroverbrückten Heterotriangulenen. <i>Angewandte Chemie</i> , 2020, 132, 16368-16376.	2.0	6
67	Stabilization of $\pi$ -conjugated organoboron scaffolds by structural constraint. <i>Arkivoc</i> , 2013, 2013, 175-184.	0.5	6
68	On-surface synthesis of $\pi$ -conjugated ladder-type polymers comprising nonbenzenoid moieties. <i>RSC Advances</i> , 2021, 11, 23437-23441.	3.6	5
69	Host guest chemistry and supramolecular doping in triphenylamine-based covalent frameworks on Au(111). <i>Nanoscale</i> , 2021, 13, 9798-9807.	5.6	5
70	p-Doping of graphene in hybrid materials with 3,10-diazapicenium dications. <i>Chemical Science</i> , 2017, 8, 3494-3499.	7.4	4
71	The Renaissance of Bridged Triarylphosphines: Towards Organophosphorus Molecular Bowls. <i>Chemistry Letters</i> , 2019, 48, 1358-1367.	1.3	4
72	5,7,12,14-Tetraphenyl-Substituted 6,13-Diazapentacenes as Versatile Organic Semiconductors: Characterization in Field Effect Transistors. <i>Organic Materials</i> , 2020, 02, 204-213.	2.0	4

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73	On-Surface Assembly of Hydrogen- and Halogen-Bonded Supramolecular Graphyne-Like Networks. <i>Angewandte Chemie</i> , 2020, 132, 9636-9642.	2.0	3
74	Edge Phonon Excitations in a Chiral Self-Assembled Supramolecular Nanoribbon. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5830-5835.	4.6	2
75	Self-Assembly: Cyano-Functionalized Triarylaminates on Au(111): Competing Intermolecular versus Molecule/Substrate Interactions ( <i>Adv. Mater. Interfaces</i> 1/2014). <i>Advanced Materials Interfaces</i> , 2014, 1, n/a-n/a.	3.7	1
76	Vorplanarisierte Triphenylamin-basierte lineare gemischtvalente Ladungstransfersysteme. <i>Angewandte Chemie</i> , 2021, 133, 6845-6851.	2.0	1
77	Tailored Solution-Based N-Heterotriangulene Thin Films: Unravelling the Self-Assembly. <i>ChemPhysChem</i> , 2021, 22, 1079-1087.	2.1	1
78	Charge and Spin Delocalization in Mixed-Valent Vinylruthenium-Triarylamine-Conjugates with Planarized Triarylaminates. <i>Organometallics</i> , 0, , .	2.3	1
79	Stability of Odd- Versus Even-Electron Gas-Phase (Quasi)Molecular Ions Derived from Pyridine-Substituted N-Heterotriangulenes. <i>ChemPlusChem</i> , 2017, 82, 163-163.	2.8	0
80	Self-Assembly of a Triphenylene-Based Electron Donor Molecule on Graphene: Structural and Electronic Properties. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	0