

Michael Pittelkow

List of Publications by Year in descending order

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88
papers

2,983
citations

126907

33
h-index

182427

51
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105
all docs

105
docs citations

105
times ranked

3425
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(amidoamine)-Dendrimer-Stabilized Pd(0) Nanoparticles as a Catalyst for the Suzuki Reaction. <i>Langmuir</i> , 2003, 19, 7682-7684.	3.5	156
2	A new efficient synthesis of isothiocyanates from amines using di-tert-butyl dicarbonate. <i>Tetrahedron Letters</i> , 2008, 49, 3117-3119.	1.4	132
3	Biotin[6]uril Esters: Chloride-Selective Transmembrane Anion Carriers Employing C ⁺ H ⁻ Anion Interactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 4948-4951.	13.7	128
4	An antiaromatic-walled nanospace. <i>Nature</i> , 2019, 574, 511-515.	27.8	122
5	Organic Light-Emitting Diodes from Symmetrical and Unsymmetrical π -Extended Tetraoxa[8]circulenes. <i>Chemistry - A European Journal</i> , 2010, 16, 13030-13034.	3.3	99
6	Discovery of a cyclic 6 + 6 hexamer of β -biotin and formaldehyde. <i>Chemical Science</i> , 2014, 5, 2647-2650.	7.4	97
7	Synthesis and Characterization of Water-Soluble Phenylene ⁺ Vinylene-Based Singlet Oxygen Sensitizers for Two-Photon Excitation. <i>Journal of Organic Chemistry</i> , 2005, 70, 7065-7079.	3.2	87
8	Synthetic Receptors for the High-Affinity Recognition of O-GlcNAc Derivatives. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3387-3392.	13.8	86
9	Chirality Amplified: Long, Discrete Helicene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2021, 143, 983-991.	13.7	85
10	New Organocatalyst Scaffolds with High Activity in Promoting Hydrazone and Oxime Formation at Neutral pH. <i>Organic Letters</i> , 2015, 17, 274-277.	4.6	83
11	Diazadioxa[8]circulenes: Planar Antiaromatic Cyclooctatetraenes. <i>Chemistry - A European Journal</i> , 2013, 19, 17097-17102.	3.3	80
12	Azatrioxa[8]circulenes: Planar Antiaromatic Cyclooctatetraenes. <i>Chemistry - A European Journal</i> , 2013, 19, 3898-3904.	3.3	78
13	Anion binding by biotin[6]uril in water. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 369-373.	2.8	76
14	Multivalency in the Gas Phase: The Study of Dendritic Aggregates by Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3557-3562.	13.8	58
15	Dynamic combinatorial chemistry with diselenides and disulfides in water. <i>Chemical Communications</i> , 2014, 50, 3716-3718.	4.1	56
16	Synthesis of Heterocyclic [8]Circulenes and Related Structures. <i>Synlett</i> , 2016, 27, 498-525.	1.8	56
17	Benzoannelated aza-, oxa- and azaoxa[8]circulenes as promising blue organic emitters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28040-28051.	2.8	54
18	Tetra-tert-butyltetraoxa[8]circulene and Its Unusual Aggregation Behaviour. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6320-6325.	2.4	53

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19	Experimental and theoretical study of IR and Raman spectra of tetraoxa[8]circulenes. <i>Vibrational Spectroscopy</i> , 2012, 61, 156-166.	2.2	51
20	Nucleus-independent chemical shift criterion for aromaticity in π -extended tetraoxa[8]circulenes. <i>Journal of Molecular Modeling</i> , 2013, 19, 847-850.	1.8	50
21	Heavy-Atom-Substituted Nucleobases in Photodynamic Applications: Substitution of Sulfur with Selenium in 6-Thioguanine Induces a Remarkable Increase in the Rate of Triplet Decay in 6-Selenoguanine. <i>Journal of the American Chemical Society</i> , 2018, 140, 11214-11218.	13.7	48
22	Visualizing 3D Molecular Structures Using an Augmented Reality App. <i>Journal of Chemical Education</i> , 2020, 97, 1487-1490.	2.3	47
23	Convergent Synthesis of Internally Branched PAMAM Dendrimers. <i>Organic Letters</i> , 2005, 7, 1295-1298.	4.6	46
24	Chemical Signals Turn On Guest Binding through Structural Reconfiguration of Triangular Helicates. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11273-11277.	13.8	44
25	Two-phase dynamic combinatorial discovery of a spermine transporter. <i>Chemical Communications</i> , 2009, , 3708.	4.1	42
26	Guest-host chemistry with dendrimers: Stable polymer assemblies by rational design. <i>Journal of Polymer Science Part A</i> , 2004, 42, 3792-3799.	2.3	39
27	Symmetric, Unsymmetrical, and Asymmetric [7] π , [10] π , and [13]Helicenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18419-18423.	13.8	39
28	From static to dynamic: escaping kinetic traps in hydrazone-based dynamic combinatorial libraries. <i>Chemical Communications</i> , 2011, 47, 7359.	4.1	38
29	Synthesis and properties of unsymmetrical azatrioxa[8]circulenes. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5937-5943.	2.8	38
30	Dynamic combinatorial chemistry with hydrazones: libraries incorporating heterocyclic and steroidal motifs. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1181.	2.8	36
31	Synthetic Receptors for the High Affinity Recognition of α -GlcNAc Derivatives. <i>Angewandte Chemie</i> , 2016, 128, 3448-3453.	2.0	36
32	DFT and QTAIM study of the tetra-tert-butyltetraoxa[8]circulene regioisomers structure. <i>Journal of Molecular Structure</i> , 2012, 1026, 127-132.	3.6	35
33	Phase-transfer dynamic combinatorial chemistry. <i>Chemical Communications</i> , 2008, , 1738.	4.1	31
34	Synthesis and Properties of 2,3-Dialkynyl-1,4-benzoquinones. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 2786-2794.	2.4	29
35	New WOLEDs based on π -extended azatrioxa[8]circulenes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4123-4128.	5.5	28
36	A Fully Conjugated Planar Heterocyclic [9]Circulene. <i>Journal of the American Chemical Society</i> , 2020, 142, 14058-14063.	13.7	28

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37	Compressing a Non-Planar Aromatic Heterocyclic [7]Helicene to a Planar Hetero[8]Circulene. Chemistry - A European Journal, 2020, 26, 4935-4940.	3.3	28
38	The FTIR spectra of substituted tetraoxa[8]circulenes and their assignments based on DFT calculations. Vibrational Spectroscopy, 2013, 65, 147-158.	2.2	26
39	Hemicucurbit[5]urils and Their Derivatives – Synthesis and Applications. Israel Journal of Chemistry, 2018, 58, 435-448.	2.3	26
40	Molecular Recognition: Comparative Study of a Tunable Host-Guest System by Using a Fluorescent Model System and Collision-Induced Dissociation Mass Spectrometry on Dendrimers. Chemistry - A European Journal, 2005, 11, 5126-5135.	3.3	25
41	Chiral dendrimer encapsulated Pd and Rh nanoparticles. Chemical Communications, 2008, , 2358.	4.1	25
42	Inverting the Selectivity of the Newman-Kwart Rearrangement via One Electron Oxidation at Room Temperature. Journal of Organic Chemistry, 2018, 83, 12000-12006.	3.2	24
43	Croconamides: a new dual hydrogen bond donating motif for anion recognition and organocatalysis. Organic and Biomolecular Chemistry, 2017, 15, 2784-2790.	2.8	23
44	Molecular Switching in Confined Spaces: Effects of Encapsulating the DHA/VHF Photo-Switch in Cucurbiturils. Chemistry - A European Journal, 2017, 23, 17010-17016.	3.3	23
45	Entropy/Enthalpy Compensation in Anion Binding: Biotin[6]uril and Biotin-sulfoxide[6]uril Reveal Strong Solvent Dependency. Journal of Organic Chemistry, 2019, 84, 2577-2584.	3.2	23
46	Dynamic combinatorial chemistry with hydrazones: cholate-based building blocks and libraries. Organic and Biomolecular Chemistry, 2010, 8, 1173.	2.8	22
47	Conversion of Phenols into Selenophenols: Seleno Newman-Kwart Rearrangement. Angewandte Chemie - International Edition, 2013, 52, 12346-12349.	13.8	22
48	7-OH quinoline Schiff bases: are they the long awaited tautomeric bistable switches?. Dyes and Pigments, 2021, 195, 109739.	3.7	22
49	Simultaneous Disulfide and Boronic Acid Ester Exchange in Dynamic Combinatorial Libraries. International Journal of Molecular Sciences, 2015, 16, 21858-21872.	4.1	21
50	Pulling the Levers of Photophysics: How Structure Controls the Rate of Energy Dissipation. Angewandte Chemie - International Edition, 2013, 52, 2247-2250.	13.8	19
51	Role of the peri-effect in synthesis and reactivity of highly substituted naphthaldehydes: a novel backbone amide linker for solid-phase synthesis. Organic and Biomolecular Chemistry, 2005, 3, 508.	2.8	18
52	Symmetric, Unsymmetrical, and Asymmetric [7], [10], and [13]Helicenes. Angewandte Chemie, 2019, 131, 18590-18594.	2.0	18
53	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydro-diazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. Angewandte Chemie - International Edition, 2020, 59, 5144-5150.	13.8	17
54	Substituent effects on the stability of extended benzylic carbocations: a computational study of conjugation. Organic and Biomolecular Chemistry, 2005, 3, 2441.	2.8	16

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55	Mechanochemical Transformation of CF ₃ Group: Synthesis of Amides and Schiff Bases. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 5448-5460.	4.3	16
56	Carbocations in Action. Design, Synthesis, and Evaluation of a Highly Acid-Sensitive Naphthalene-Based Backbone Amide Linker for Solid-Phase Synthesis. <i>Organic Letters</i> , 2006, 8, 5817-5820.	4.6	14
57	⁷⁷ Se NMR Spectroscopy As a Sensitive Probe for Hammett ρ Constants. <i>Journal of Organic Chemistry</i> , 2015, 80, 3852-3857.	3.2	13
58	A concept for stimulated proton transfer in 1-(phenyldiazenyl)naphthalen-2-ols. <i>Dyes and Pigments</i> , 2018, 156, 91-99.	3.7	13
59	Metalloporphyrin Dendrimers: Sensitive Corrole- $\text{Cr}(\text{V})$ -Nitride Spin Probes for Studying the Solution Structure of Dendrimers. <i>Inorganic Chemistry</i> , 2011, 50, 5867-5869.	4.0	12
60	Raman spectra of tetraoxa[8]circulenes. p-dinaphthalenodiphenylenetetrafulan and its tetraalkyl derivatives (DFT study and experiment). <i>Journal of Applied Spectroscopy</i> , 2012, 79, 695-707.	0.7	11
61	Solvent-dependent dual fluorescence of the push-pull system 2-diethylamino-7-nitrofluorene. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5942-5951.	2.8	11
62	Selective Synthesis of Carbamate Protected Polyamines Using Alkyl Phenyl Carbonates. <i>Synthesis</i> , 2002, 2002, 2195-2202.	2.3	10
63	Synthesis, Structure, and Properties of 4,7-Dimethoxybenzo[c]tellurophene: A Molecular Pyroelectric Material. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5666-5670.	13.8	10
64	Raman spectra of alkyl-substituted azaoxa[8]circulenes: DFT calculation and experiment. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 114, 509-521.	0.6	10
65	Synthesis and properties of chiral internally branched PAMAM-dendrimers. <i>Tetrahedron</i> , 2015, 71, 1109-1116.	1.9	10
66	Thiosemicarbazone organocatalysis: tetrahydropyranylation and 2-deoxygalactosylation reactions and kinetics-based mechanistic investigation. <i>Chemical Science</i> , 2017, 8, 7978-7982.	7.4	10
67	A gold-nanoparticle stoppered [2]rotaxane. <i>Nanoscale</i> , 2018, 10, 9133-9140.	5.6	9
68	Benzylic Thio and Seleno Newman-Kwart Rearrangements. <i>Journal of Organic Chemistry</i> , 2018, 83, 10786-10797.	3.2	9
69	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydrodiazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. <i>Angewandte Chemie</i> , 2020, 132, 5182-5188.	2.0	8
70	Laser welding of polymers using unsymmetrical squaraine dyes. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2245-2254.	2.3	7
71	Triggering C-Quadruplex Conformation Switching with [7]Helicenes. <i>Chemistry - A European Journal</i> , 2021, 27, 6064-6069.	3.3	7
72	Dianthracenylazatrioxa[8]circulene: Synthesis, Characterization and Application in OLEDs. <i>Chemistry - A European Journal</i> , 2021, 27, 11609-11617.	3.3	7

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73	Odd-Number Cyclo[<i>n</i>]Carbons Sustaining Alternating Aromaticity. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2445-2452.	2.5	7
74	Thiosemicarbazone Dynamic Combinatorial Chemistry: Equilibrator-Induced Dynamic State, Formation of Complex Libraries, and a Supramolecular On/Off Switch. <i>Journal of Organic Chemistry</i> , 2017, 82, 8580-8589.	3.2	5
75	Azo-hydrazone molecular switches: Synthesis and NMR conformational investigation. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 1116-1125.	1.9	5
76	Cu-Catalyzed Arylation of Bromo-Difluoro-Acetamides by Aryl Boronic Acids, Aryl Trialkoxysilanes and Dimethyl-Aryl-Sulfonium Salts: New Entries to Aromatic Amides. <i>Molecules</i> , 2021, 26, 2957.	3.8	5
77	Thermal stabilisation of squaraine dyes by encapsulation in a rotaxane. <i>New Journal of Chemistry</i> , 2020, 44, 20930-20934.	2.8	5
78	2,5-Dimethoxybenzene-1,4-dicarbaldehyde. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o473-o474.	0.2	3
79	Molecular recognition: minimizing the acid-base interaction of a tunable host-guest system changes the selectivity of binding. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 63, 257-266.	1.6	3
80	Simple Procedures for the Preparation of 1,3,5-Substituted 2,4,6-Trimethoxybenzenes. <i>Synlett</i> , 2013, 24, 2437-2442.	1.8	3
81	The photoinduced transformation of fluorescent DNA base analogue tC triggers DNA melting. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1416.	2.9	2
82	Note: A variable temperature cell for spectroscopy of thin films. <i>Review of Scientific Instruments</i> , 2013, 84, 046106.	1.3	2
83	2-(4-Bromophenyl)-1-methyl-1H-phenanthro[9,10-d]imidazole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o955-o956.	0.2	1
84	A peri-Cyclised Naphthalene Dimer: Synthesis and Properties of an Unusual Vilsmeier-Haack Product of 1,3,6,8-Tetramethoxynaphthalene. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4931-4936.	2.4	1
85	The Sulfolene Protecting Group: Observation of a Direct Photoinitiated Cheletropic Ring Opening. <i>ChemPhotoChem</i> , 2021, 5, 863-870.	3.0	1
86	Cover Picture: Multivalency in the Gas Phase: The Study of Dendritic Aggregates by Mass Spectrometry (<i>Angew. Chem. Int. Ed.</i> 27/2004). <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3497-3497.	13.8	0
87	Abstract: Pulling the Levers of Photophysics: How Structure Controls the Rate of Energy Dissipation (<i>Angew. Chem.</i> 8/2013). <i>Angewandte Chemie</i> , 2013, 125, 2432-2432.	2.0	0
88	PROFILE: Early Excellence in Physical Organic Chemistry. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 707-707.	1.9	0