

Mihai Peterca

List of Publications by Year in descending order

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72
papers

7,481
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50276

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Enhancing conformational flexibility of dendronized triphenylene via diethylene glycol linkers lowers transitions of helical columnar, Frank-Kasper, and quasicrystal phases. <i>Giant</i> , 2022, 10, 100098.	5.1	9
2	Conformationally flexible dendronized cyclotetraveratrylenes (CTTV)s self-organize a large diversity of chiral columnar, Frank-Kasper and quasicrystal phases. <i>Giant</i> , 2022, 10, 100096.	5.1	12
3	Molecular parameters including fluorination program order during hierarchical helical self-organization of self-assembling dendrons. <i>Giant</i> , 2022, 11, 100103.	5.1	10
4	Self-organisation of rhombitruncated cuboctahedral hexagonal columns from an amphiphilic Janus dendrimer. <i>Molecular Physics</i> , 2021, 119, .	1.7	13
5	An Accelerated Modular-Orthogonal Ni-Catalyzed Methodology to Symmetric and Nonsymmetric Constitutional Isomeric AB ₂ to AB ₉ Dendrons Exhibiting Unprecedented Self-Organizing Principles. <i>Journal of the American Chemical Society</i> , 2021, 143, 17724-17743.	13.7	25
6	Self-Organization of Rectangular Bipyramidal Helical Columns by Supramolecular Orientational Memory Epitaxially Nucleated from a Frank-Kasper Γ Phase. <i>Giant</i> , 2021, , 100084.	5.1	21
7	Monodisperse Macromolecules by Self-Interrupted Living Polymerization. <i>Journal of the American Chemical Society</i> , 2020, 142, 15265-15270.	13.7	37
8	Supramolecular spheres assembled from covalent and supramolecular dendritic crowns dictate the supramolecular orientational memory effect mediated by Frank-Kasper phases. <i>Giant</i> , 2020, 1, 100001.	5.1	40
9	Supramolecular Spheres Self-Assembled from Conical Dendrons Are Chiral. <i>Journal of the American Chemical Society</i> , 2019, 141, 6162-6166.	13.7	42
10	Losing supramolecular orientational memory \rightarrow self-organization of a misfolded secondary structure. <i>Polymer Chemistry</i> , 2018, 9, 2370-2381.	3.9	15
11	Dendronized Poly(2-oxazoline) Displays within only Five Monomer Repeat Units Liquid Quasicrystal, A15 and Γ Frank-Kasper Phases. <i>Journal of the American Chemical Society</i> , 2018, 140, 16941-16947.	13.7	57
12	Hierarchical Self-Organization of Chiral Columns from Chiral Supramolecular Spheres. <i>Journal of the American Chemical Society</i> , 2018, 140, 13478-13487.	13.7	34
13	Tetrahedral Arrangements of Perylene Bisimide Columns \rightarrow Supramolecular Orientational Memory. <i>ACS Nano</i> , 2017, 11, 983-991.	14.6	33
14	A Tetragonal Phase Self-Organized from Unimolecular Spheres Assembled from a Substituted Poly(2-oxazoline). <i>Macromolecules</i> , 2017, 50, 375-385.	4.8	34
15	Demonstrating the 8 ₁ -Helicity and Nanomechanical Function of Self-Organizable Dendronized Polymethacrylates and Polyacrylates. <i>Macromolecules</i> , 2017, 50, 5271-5284.	4.8	32
16	Why Do Membranes of Some Unhealthy Cells Adopt a Cubic Architecture?. <i>ACS Central Science</i> , 2016, 2, 943-953.	11.3	37
17	Complex Arrangement of Orthogonal Nanoscale Columns \rightarrow a Supramolecular Orientational Memory Effect. <i>ACS Nano</i> , 2016, 10, 10480-10488.	14.6	42
18	Screening Libraries of Semifluorinated Arylene Bisimides to Discover and Predict Thermodynamically Controlled Helical Crystallization. <i>ACS Combinatorial Science</i> , 2016, 18, 723-739.	3.8	23

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19	Hierarchical Self-Organization of Perylene Bisimides into Supramolecular Spheres and Periodic Arrays Thereof. <i>Journal of the American Chemical Society</i> , 2016, 138, 14798-14807.	13.7	56
20	Onion-like glycodendrimersomes from sequence-defined Janus glycodendrimers and influence of architecture on reactivity to a lectin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1162-1167.	7.1	86
21	A supramolecular helix that disregards chirality. <i>Nature Chemistry</i> , 2016, 8, 80-89.	13.6	147
22	Complex Columnar Hexagonal Polymorphism in Supramolecular Assemblies of a Semifluorinated Electron-Accepting Naphthalene Bisimide. <i>Journal of the American Chemical Society</i> , 2015, 137, 807-819.	13.7	31
23	Self-organisation of dodeca-dendronized fullerene into supramolecular discs and helical columns containing a nanowire-like core. <i>Chemical Science</i> , 2015, 6, 3393-3401.	7.4	49
24	Increasing 3D Supramolecular Order by Decreasing Molecular Order. A Comparative Study of Helical Assemblies of Dendronized Nonchlorinated and Tetrachlorinated Perylene Bisimides. <i>Journal of the American Chemical Society</i> , 2015, 137, 5210-5224.	13.7	40
25	Modular Synthesis of Amphiphilic Janus Glycodendrimers and Their Self-Assembly into Glycodendrimersomes and Other Complex Architectures with Bioactivity to Biomedically Relevant Lectins. <i>Journal of the American Chemical Society</i> , 2013, 135, 9055-9077.	13.7	261
26	Transformation from Kinetically into Thermodynamically Controlled Self-Organization of Complex Helical Columns with 3D Periodicity Assembled from Dendronized Perylene Bisimides. <i>Journal of the American Chemical Society</i> , 2013, 135, 4129-4148.	13.7	98
27	Self-Organizable Vesicular Columns Assembled from Polymers Dendronized with Semifluorinated Janus Dendrimers Act As Reverse Thermal Actuators. <i>Journal of the American Chemical Society</i> , 2012, 134, 4408-4420.	13.7	123
28	Programming the Supramolecular Helical Polymerization of Dendritic Dipeptides via the Stereochemical Information of the Dipeptide. <i>Journal of the American Chemical Society</i> , 2011, 133, 5135-5151.	13.7	82
29	Self-Repairing Complex Helical Columns Generated via Kinetically Controlled Self-Assembly of Dendronized Perylene Bisimides. <i>Journal of the American Chemical Society</i> , 2011, 133, 18479-18494.	13.7	82
30	Self-Assembly of Dendronized Perylene Bisimides into Complex Helical Columns. <i>Journal of the American Chemical Society</i> , 2011, 133, 12197-12219.	13.7	120
31	Predicting the Size and Properties of Dendrimersomes from the Lamellar Structure of Their Amphiphilic Janus Dendrimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 20507-20520.	13.7	165
32	Transfer, Amplification, and Inversion of Helical Chirality Mediated by Concerted Interactions of C ₃ -Supramolecular Dendrimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 2311-2328.	13.7	100
33	Deconstruction as a Strategy for the Design of Libraries of Self-Assembling Dendrons. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7002-7005.	13.8	64
34	Recasting Metal Alloy Phases with Block Copolymers. <i>Science</i> , 2010, 330, 333-334.	12.6	44
35	Self-Assembly of Hybrid Dendrons into Doubly Segregated Supramolecular Polyhedral Columns and Vesicles. <i>Journal of the American Chemical Society</i> , 2010, 132, 11288-11305.	13.7	70
36	Proton Transport from Dendritic Helical Pore-Incorporated Polymersomes. <i>Advanced Functional Materials</i> , 2009, 19, 2930-2936.	14.9	40

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37	Elucidating the Structure of the $Pm\bar{3}n$ Cubic Phase of Supramolecular Dendrimers through the Modification of their Aliphatic to Aromatic Volume Ratio. Chemistry - A European Journal, 2009, 15, 8994-9004.	3.3	51
38	Dendronized supramolecular polymers self-assembled from dendritic ionic liquids. Journal of Polymer Science Part A, 2009, 47, 4165-4193.	2.3	58
39	Self-Assembly of Dendronized Triphenylenes into Helical Pyramidal Columns and Chiral Spheres. Journal of the American Chemical Society, 2009, 131, 7662-7677.	13.7	169
40	Dendron-Mediated Self-Assembly, Disassembly, and Self-Organization of Complex Systems. Chemical Reviews, 2009, 109, 6275-6540.	47.7	1,131
41	Predicting the Structure of Supramolecular Dendrimers via the Analysis of Libraries of AB_3 and Constitutional Isomeric AB_2 Biphenylpropyl Ether Self-Assembling Dendrons. Journal of the American Chemical Society, 2009, 131, 17500-17521.	13.7	165
42	Self-Assembling Dendronized Dendrimers. Israel Journal of Chemistry, 2009, 49, 55-70.	2.3	26
43	Self-Assembly of Dendritic Crowns into Chiral Supramolecular Spheres. Journal of the American Chemical Society, 2009, 131, 1294-1304.	13.7	158
44	Thixotropic Twin-Dendritic Organogelators. Chemistry - A European Journal, 2008, 14, 909-918.	3.3	61
45	Supramolecular Structural Diversity among First-Generation Hybrid Dendrimers and Twin Dendrons. Chemistry - A European Journal, 2008, 14, 3355-3362.	3.3	45
46	Molecular Structure of Helical Supramolecular Dendrimers. Journal of the American Chemical Society, 2008, 130, 14840-14852.	13.7	130
47	Hollow Spherical Supramolecular Dendrimers. Journal of the American Chemical Society, 2008, 130, 13079-13094.	13.7	113
48	Nanomechanical Function from Self-Organizable Dendronized Helical Polyphenylacetylenes. Journal of the American Chemical Society, 2008, 130, 7503-7508.	13.7	224
49	Long-range electron transport in a self-organizing n-type organic material. Applied Physics Letters, 2008, 92, 113312.	3.3	27
50	Helical Pores Self-Assembled from Homochiral Dendritic Dipeptides Based on L-Tyr and Nonpolar β -Amino Acids. Journal of the American Chemical Society, 2007, 129, 5992-6002.	13.7	81
51	Expanding the Structural Diversity of Self-Assembling Dendrons and Supramolecular Dendrimers via Complex Building Blocks. Journal of the American Chemical Society, 2007, 129, 11265-11278.	13.7	146
52	Selective Transport of Water Mediated by Porous Dendritic Dipeptides. Journal of the American Chemical Society, 2007, 129, 11698-11699.	13.7	160
53	Self-Assembly of Semifluorinated Minidendrons Attached to Electron-Acceptor Groups into Pyramidal Columns. Chemistry - A European Journal, 2007, 13, 3330-3345.	3.3	74
54	Self-Assembly of Hybrid Dendrons with Complex Primary Structure Into Functional Helical Pores. Chemistry - A European Journal, 2007, 13, 3989-4007.	3.3	52

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55	Self-Assembling Phenylpropyl Ether Dendronized Helical Polyphenylacetylenes. Chemistry - A European Journal, 2007, 13, 9572-9581.	3.3	81
56	Synthesis, structural, and retrostructural analysis of helical dendronized poly(1-naphthylacetylene)s. Journal of Polymer Science Part A, 2007, 45, 4974-4987.	2.3	58
57	Self-Assembly in Action. Science, 2006, 313, 55-56.	12.6	96
58	Steric Communication of Chiral Information Observed in Dendronized Polyacetylenes. Journal of the American Chemical Society, 2006, 128, 16365-16372.	13.7	166
59	Self-Assembly, Structural, and Retrostructural Analysis of Dendritic Dipeptide Pores Undergoing Reversible Circular to Elliptical Shape Change. Journal of the American Chemical Society, 2006, 128, 6713-6720.	13.7	96
60	Synthesis and Retrostructural Analysis of Libraries of AB ₃ and Constitutional Isomeric AB ₂ Phenylpropyl Ether-Based Supramolecular Dendrimers. Journal of the American Chemical Society, 2006, 128, 3324-3334.	13.7	154
61	Self-Assembly of Semifluorinated Dendrons Attached to Electron-Donor Groups Mediates Their π -Stacking via a Helical Pyramidal Column. Chemistry - A European Journal, 2006, 12, 6298-6314.	3.3	116
62	Synthesis, Structural Analysis, and Visualization of a Library of Dendronized Polyphenylacetylenes. Chemistry - A European Journal, 2006, 12, 5731-5746.	3.3	66
63	Exploring and Expanding the Structural Diversity of Self-Assembling Dendrons through Combinations of AB, Constitutional Isomeric AB ₂ , and AB ₃ Biphenyl-4-Methyl Ether Building Blocks. Chemistry - A European Journal, 2006, 12, 6216-6241.	3.3	88
64	Principles of self-assembly of helical pores from dendritic dipeptides. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2518-2523.	7.1	126
65	Self-Assembly of Semifluorinated Janus-Dendritic Benzamides into Bilayered Pyramidal Columns. Angewandte Chemie - International Edition, 2005, 44, 4739-4745.	13.8	158
66	The Internal Structure of Helical Pores Self-Assembled from Dendritic Dipeptides is Stereochemically Programmed and Allosterically Regulated. Angewandte Chemie - International Edition, 2005, 44, 6516-6521.	13.8	72
67	Helical Porous Protein Mimics Self-Assembled from Amphiphilic Dendritic Dipeptides. Australian Journal of Chemistry, 2005, 58, 472.	0.9	47
68	Programming the Internal Structure and Stability of Helical Pores Self-Assembled from Dendritic Dipeptides via the Protective Groups of the Peptide. Journal of the American Chemical Society, 2005, 127, 17902-17909.	13.7	108
69	Giant dielectric permittivity of electron-doped manganite thin films, Ca _{1-x} LaxMnO ₃ (0 ≤ x ≤ 0.03). Journal of Applied Physics, 2005, 97, 034102.	2.5	36
70	Thermoreversible Cis- to Transoid Isomerization of Helical Dendronized Polyphenylacetylenes. Journal of the American Chemical Society, 2005, 127, 15257-15264.	13.7	218
71	Self-assembly of amphiphilic dendritic dipeptides into helical pores. Nature, 2004, 430, 764-768.	27.8	613
72	Low-temperature permittivity of insulating perovskite manganites. Physical Review B, 2004, 70, .	3.2	76