

Charles N Moorefield

List of Publications by Year in descending order

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43
papers

3,010
citations

218677

26
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223800

46
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47
all docs

47
docs citations

47
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	Unimolecular Micelles. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 1178-1180.	4.4	380
2	Nanoassembly of a Fractal Polymer: A Molecular "Sierpinski Hexagonal Gasket". <i>Science</i> , 2006, 312, 1782-1785.	12.6	285
3	Routes to Dendritic Networks: Bis-Dendrimers by Coupling of Cascade Macromolecules through Metal Centers. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 2023-2026.	4.4	204
4	Design, Synthesis, and Traveling Wave Ion Mobility Mass Spectrometry Characterization of Iron(II) and Ruthenium(II) Terpyridine Metallomacrocycles. <i>Journal of the American Chemical Society</i> , 2011, 133, 11967-11976.	13.7	158
5	Stoichiometric Self-Assembly of Shape-Persistent 2D Complexes: A Facile Route to a Symmetric Supramacromolecular Spoked Wheel. <i>Journal of the American Chemical Society</i> , 2011, 133, 11450-11453.	13.7	147
6	Metallomicellans: incorporation of ruthenium(II)-2,2':6,2''-terpyridine triads into cascade polymers. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, .	2.0	143
7	From 1st 3 dendritic designs to fractal supramacromolecular constructs: understanding the pathway to the Sierpinski gasket. <i>Chemical Society Reviews</i> , 2015, 44, 3954-3967.	38.1	138
8	Hexagonal Terpyridine Ruthenium and Iron Macrocylic Complexes by Stepwise and Self-Assembly Procedures. <i>Chemistry - A European Journal</i> , 2002, 8, 2946.	3.3	118
9	Self- and Directed Assembly of Hexaruthenium Macrocycles. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3717-3721.	13.8	116
10	Probing a Hidden World of Molecular Self-Assembly: Concentration-Dependent, Three-Dimensional Supramolecular Interconversions. <i>Journal of the American Chemical Society</i> , 2014, 136, 18149-18155.	13.7	104
11	Stoichiometric Self-Assembly of Isomeric, Shape-Persistent, Supramacromolecular Bowtie and Butterfly Structures. <i>Journal of the American Chemical Society</i> , 2012, 134, 7672-7675.	13.7	100
12	Precise Molecular Fission and Fusion: Quantitative Self-Assembly and Chemistry of a Metallo-Cuboctahedron. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9224-9229.	13.8	93
13	One-Step Multicomponent Self-Assembly of a First-Generation Sierpinski Triangle: From Fractal Design to Chemical Reality. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12182-12185.	13.8	87
14	Self-Assembly of a Supramolecular, Three-Dimensional, Spoked, Bicycle-Like Wheel. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7728-7731.	13.8	81
15	Construction of a Highly Symmetric Nanosphere via a One-Pot Reaction of a Tristerpyridine Ligand with Ru(II). <i>Journal of the American Chemical Society</i> , 2014, 136, 8165-8168.	13.7	80
16	Hexameric Palladium(II) Terpyridyl Metallomacrocycles: Assembly with 4,4'-bipyridine and Characterization by TWIM Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6539-6544.	13.8	70
17	Controlled Interconversion of Superposed-Bistriple, Octahedron, and Cuboctahedron Cages Constructed Using a Single, Terpyridinyl-Based Polyligand and Zn ²⁺ . <i>Journal of the American Chemical Society</i> , 2016, 138, 12344-12347.	13.7	63
18	Terpyridine-Based, Flexible Tripods: From a Highly Symmetric Nanosphere to Temperature-Dependent, Irreversible, 3D Isomeric Macromolecular Nanocages. <i>Journal of the American Chemical Society</i> , 2017, 139, 3012-3020.	13.7	56

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19	Self-assembly of a supramolecular hexagram and a supramolecular pentagram. <i>Nature Communications</i> , 2017, 8, 15476.	12.8	53
20	From supramolecular triangle to heteroleptic rhombus: a simple bridge can make a difference. <i>Chemical Communications</i> , 2012, 48, 9873.	4.1	45
21	Facile thermodynamic conversion of a linear metallopolymer into a self-assembled hexameric metallomacrocyclic. <i>Chemical Communications</i> , 2015, 51, 5766-5769.	4.1	40
22	Stable, trinuclear Zn(ii)- and Cd(ii)-metallocycles: TWIM-MS, photophysical properties, and nanofiber formation. <i>Dalton Transactions</i> , 2012, 41, 11573.	3.3	39
23	Supercharged, Precise, Megametallo dendrimers via a Single-Step, Quantitative, Assembly Process. <i>Journal of the American Chemical Society</i> , 2017, 139, 15652-15655.	13.7	37
24	Dendrimer- π -Metallomacrocyclic Composites: Nanofiber Formation by Multi- π - π Pairing. <i>Advanced Materials</i> , 2008, 20, 1381-1385.	21.0	36
25	Syntheses of New 1 π (2 + 1)C-Branched Monomers for the Construction of Multifunctional Dendrimers. <i>Macromolecules</i> , 2003, 36, 4345-4354.	4.8	30
26	Towards Molecular Construction Platforms: Synthesis of a Metallo-tricyclic Spirane Based on Bis(2,2'-bipyridine)Ru ^{II} Connectivity. <i>Chemistry - A European Journal</i> , 2014, 20, 11291-11294.	3.3	26
27	Directed flexibility: self-assembly of a supramolecular tetrahedron. <i>Chemical Communications</i> , 2015, 51, 3820-3823.	4.1	25
28	Terpyridine-Cu(II)-Polycarboxylate Crystal Reorganization to One- and Two-Dimensional Nanostructures: π - π Crystal Disassembly and Reassembly. <i>Crystal Growth and Design</i> , 2006, 6, 1563-1565.	3.0	23
29	3D helical and 2D rhomboidal supramolecules: stepwise self-assembly and dynamic transformation of terpyridine-based metallo-architectures. <i>Chemical Communications</i> , 2016, 52, 9773-9776.	4.1	21
30	Perylene-Based Bis-, Tetrakis-, and Hexakis(terpyridine) Ligands and Their Ruthenium(II)-Bis(terpyridine) Complexes: Synthesis and Photophysical Properties. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3640-3644.	2.4	18
31	Multicomponent reassembly of terpyridine-based materials: quantitative metallomacrocyclic rearrangement. <i>Chemical Communications</i> , 2015, 51, 12851-12854.	4.1	18
32	Effect of Ionic Binding on the Self-Diffusion of Anionic Dendrimers and Hydrophilic Polymers in Aqueous Systems as Studied by Pulsed Gradient NMR Techniques. <i>Macromolecules</i> , 2007, 40, 3644-3649.	4.8	15
33	Programmed Molecular Engineering: Stepwise, Multicomponent Assembly of a Dimetallic Metallo-triangulane. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 5091-5095.	2.4	15
34	Concentration dependent supramolecular interconversions of triptycene-based cubic, prismatic, and tetrahedral structures. <i>Dalton Transactions</i> , 2018, 47, 14189-14194.	3.3	15
35	Group 8 Metallomacrocyclics: Synthesis, Characterization, and Stability. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5662-5668.	2.0	13
36	Sierpiński Pyramids by Molecular Entanglement. <i>Journal of the American Chemical Society</i> , 2020, 142, 5526-5530.	13.7	13

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37	A Long Pathway to the Quantitative Assembly of Metallo-dendrimers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 360-368.	3.7	11
38	Supramolecular arrays by the self-assembly of terpyridine-based monomers with transition metal ions. <i>Dalton Transactions</i> , 2018, 47, 7528-7533.	3.3	11
39	Stepwise, multicomponent assembly of a molecular trapezoid possessing three different metals. <i>Chemical Communications</i> , 2017, 53, 8038-8041.	4.1	10
40	Amphiphilic [tpy-MII-tpy] metallo-triangles: synthesis, characterisation and hierarchical ordering. <i>Supramolecular Chemistry</i> , 2017, 29, 69-79.	1.2	8
41	Metallo-dendrimers: Fractals and Photonics. <i>ACS Symposium Series</i> , 2006, , 186-204.	0.5	5
42	Route to Useful Metallomonomers: Step-Wise Construction of Bimetallic Triangles by Site-Specific Metalation. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 153-158.	3.7	3
43	Eight-membered and larger rings. <i>Progress in Heterocyclic Chemistry</i> , 2021, 33, 583-598.	0.5	1