

Liam C Palmer

List of Publications by Year in descending order

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65
papers

7,412
citations

87888

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110387

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69
all docs

69
docs citations

69
times ranked

9447
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Interactions within and between Peptide Amphiphile Supramolecular Filaments. Journal of Physical Chemistry B, 2022, 126, 650-659.	2.6	9
2	Supramolecular Copolymers of Peptides and Lipidated Peptides and Their Therapeutic Potential. Journal of the American Chemical Society, 2022, 144, 5562-5574.	13.7	16
3	Acid-Base Equilibrium and Dielectric Environment Regulate Charge in Supramolecular Nanofibers. Frontiers in Chemistry, 2022, 10, 852164.	3.6	6
4	Hybrid Nanocrystals of Small Molecules and Chemically Disordered Polymers. ACS Nano, 2022, 16, 8993-9003.	14.6	8
5	Hybrid gels <i>via</i> bulk interfacial complexation of supramolecular polymers and polyelectrolytes. Soft Matter, 2021, 17, 4949-4956.	2.7	8
6	Self-sorting in supramolecular assemblies. Soft Matter, 2021, 17, 3902-3912.	2.7	14
7	Synergistic photoactuation of bilayered spiropyran hydrogels for predictable origami-like shape change. Matter, 2021, 4, 1377-1390.	10.0	57
8	Growth of Extra-Large Chromophore Supramolecular Polymers for Enhanced Hydrogen Production. Nano Letters, 2021, 21, 3745-3752.	9.1	18
9	Supramolecular Interactions and Morphology of Self-Assembling Peptide Amphiphile Nanostructures. Nano Letters, 2021, 21, 6146-6155.	9.1	26
10	Crystalline Supramolecular Polymers: Dynamics, Chirality, and Function. Israel Journal of Chemistry, 2021, 61, 873-883.	2.3	1
11	Chromophore amphiphileâ€“polyelectrolyte hybrid hydrogels for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2020, 8, 158-168.	10.3	33
12	Transforming Growth Factor β 1 Binding by Peptide Amphiphile Hydrogels. ACS Biomaterials Science and Engineering, 2020, 6, 4551-4560.	5.2	19
13	Fast and programmable locomotion of hydrogel-metal hybrids under light and magnetic fields. Science Robotics, 2020, 5, .	17.6	163
14	Development of Optimized Tissue-Factor-Targeted Peptide Amphiphile Nanofibers to Slow Noncompressible Torso Hemorrhage. ACS Nano, 2020, 14, 6649-6662.	14.6	28
15	Supramolecularâ€“covalent hybrid polymers for light-activated mechanical actuation. Nature Materials, 2020, 19, 900-909.	27.5	186
16	Supramolecular Exchange among Assemblies of Opposite Charge Leads to Hierarchical Structures. Journal of the American Chemical Society, 2020, 142, 12216-12225.	13.7	44
17	Supramolecular and Hybrid Bonding Polymers. Israel Journal of Chemistry, 2020, 60, 124-131.	2.3	15
18	Light-Driven Expansion of Spiropyran Hydrogels. Journal of the American Chemical Society, 2020, 142, 8447-8453.	13.7	190

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19	Structure and chemical stability in perovskite-polymer hybrid photovoltaic materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1687-1699.	10.3	60
20	Chiral Recognition of Lipid Bilayer Membranes by Supramolecular Assemblies of Peptide Amphiphiles. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2786-2792.	5.2	26
21	Energy Storage: Oriented Multiwalled Organic-Co(OH) ₂ Nanotubes for Energy Storage (Adv. Funct. Mater. 3/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870019.	14.9	1
22	Oriented Multiwalled Organic-Co(OH) ₂ Nanotubes for Energy Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1702320.	14.9	26
23	Self-Repair of Structure and Bioactivity in a Supramolecular Nanostructure. <i>Nano Letters</i> , 2018, 18, 6832-6841.	9.1	31
24	Peptide supramolecular materials for therapeutics. <i>Chemical Society Reviews</i> , 2018, 47, 7539-7551.	38.1	208
25	Covalent-supramolecular hybrid polymers as muscle-inspired anisotropic actuators. <i>Nature Communications</i> , 2018, 9, 2395.	12.8	102
26	Electrostatic Control of Polymorphism in Charged Amphiphile Assemblies. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1623-1628.	2.6	37
27	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. <i>Journal of the American Chemical Society</i> , 2017, 139, 6120-6127.	13.7	60
28	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. <i>Journal of the American Chemical Society</i> , 2017, 139, 8915-8921.	13.7	53
29	Programmable Assembly of Peptide Amphiphile via Noncovalent-to-Covalent Bond Conversion. <i>Journal of the American Chemical Society</i> , 2017, 139, 8995-9000.	13.7	68
30	Co-assembly of Peptide Amphiphiles and Lipids into Supramolecular Nanostructures Driven by Anion-π Interactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 7823-7830.	13.7	75
31	Supramolecular Assembly of Peptide Amphiphiles. <i>Accounts of Chemical Research</i> , 2017, 50, 2440-2448.	15.6	414
32	Extended-Charge-Transfer Excitons in Crystalline Supramolecular Photocatalytic Scaffolds. <i>Journal of the American Chemical Society</i> , 2016, 138, 11762-11774.	13.7	91
33	Asymmetric Peptide Nanoribbons. <i>Nano Letters</i> , 2016, 16, 6967-6974.	9.1	38
34	Simultaneous covalent and noncovalent hybrid polymerizations. <i>Science</i> , 2016, 351, 497-502.	12.6	164
35	Energy landscapes and functions of supramolecular systems. <i>Nature Materials</i> , 2016, 15, 469-476.	27.5	348
36	Supramolecular Packing Controls H ₂ Photocatalysis in Chromophore Amphiphile Hydrogels. <i>Journal of the American Chemical Society</i> , 2015, 137, 15241-15246.	13.7	107

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37	Supramolecular Chemistry and Self-Assembly in Organic Materials Design. <i>Chemistry of Materials</i> , 2014, 26, 507-518.	6.7	421
38	Self-assembling hydrogel scaffolds for photocatalytic hydrogen production. <i>Nature Chemistry</i> , 2014, 6, 964-970.	13.6	394
39	Long-Range Ordering of Highly Charged Self-Assembled Nanofilaments. <i>Journal of the American Chemical Society</i> , 2014, 136, 14377-14380.	13.7	28
40	Internal dynamics of a supramolecular nanofibre. <i>Nature Materials</i> , 2014, 13, 812-816.	27.5	154
41	Self-assembly of biomolecular soft matter. <i>Faraday Discussions</i> , 2013, 166, 9.	3.2	84
42	Crystalline polymorphism induced by charge regulation in ionic membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16309-16314.	7.1	40
43	Self-Assembly of Highly Ordered Peptide Amphiphile Metalloporphyrin Arrays. <i>Journal of the American Chemical Society</i> , 2012, 134, 14646-14649.	13.7	87
44	Molecular Crystallization Controlled by pH Regulates Mesoscopic Membrane Morphology. <i>ACS Nano</i> , 2012, 6, 10901-10909.	14.6	56
45	Grooved Nanowires from Self-Assembling Hairpin Molecules for Solar Cells. <i>ACS Nano</i> , 2012, 6, 2032-2040.	14.6	55
46	Design of Biomolecules for Nanoengineered Biomaterials for Regenerative Medicine. <i>Methods in Molecular Biology</i> , 2012, 811, 39-49.	0.9	29
47	Self-assembly and conductivity of hydrogen-bonded oligothiophene nanofiber networks. <i>Chemical Communications</i> , 2011, 47, 5702.	4.1	95
48	Self-Assembly and Orientation of Hydrogen-Bonded Oligothiophene Polymorphs at Liquid-Liquid Membrane-Liquid Interfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 16486-16494.	13.7	57
49	A self-assembly pathway to aligned monodomain gels. <i>Nature Materials</i> , 2010, 9, 594-601.	27.5	576
50	Buckled Membranes in Mixed-Valence Ionic Amphiphile Vesicles. <i>Journal of the American Chemical Society</i> , 2009, 131, 12030-12031.	13.7	66
51	Molecular Self-Assembly into One-Dimensional Nanostructures. <i>Accounts of Chemical Research</i> , 2008, 41, 1674-1684.	15.6	699
52	Biomimetic Systems for Hydroxyapatite Mineralization Inspired By Bone and Enamel. <i>Chemical Reviews</i> , 2008, 108, 4754-4783.	47.7	934
53	A Templating Approach for Monodisperse Self-Assembled Organic Nanostructures. <i>Journal of the American Chemical Society</i> , 2008, 130, 2742-2743.	13.7	79
54	Supramolecular self-assembly codes for functional structures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1417-1433.	3.4	98

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55	Resorcinarenes are hexameric capsules in solution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12296-12300.	7.1	141
56	The Ins and Outs of Molecular Encapsulation.. ChemInform, 2005, 36, no.	0.0	0
57	Hydrocarbon Binding Inside a Hexameric Pyrogallol[4]arene Capsule. Organic Letters, 2005, 7, 787-789.	4.6	81
58	Diastereoselection of chiral acids in a cylindrical capsule. Chemical Communications, 2005, , 3667.	4.1	18
59	Resorcinarene assemblies as synthetic receptors. Chemical Communications, 2005, , 857.	4.1	46
60	The ins and outs of molecular encapsulation. Organic and Biomolecular Chemistry, 2004, 2, 3051.	2.8	174
61	Glycoluril ribbons tethered by complementary hydrogen bonds. Chemical Communications, 2003, , 1638-1639.	4.1	14
62	New supramolecular organization for a glycoluril: chiral hydrogen-bonded ribbons. Chemical Communications, 2002, , 2228.	4.1	18
63	Synthesis and Self-Assembly of the "Tennis Ball" Dimer and Subsequent Encapsulation of Methane. An Advanced Organic Chemistry Laboratory Experiment. Journal of Chemical Education, 2001, 78, 1519.	2.3	9
64	Solid-phase approaches toward cyclic oligomers. Tetrahedron, 2001, 57, 9055-9065.	1.9	11
65	Interplay of Thermochromicity and Liquid Crystalline Behavior in Poly(p-phenyleneethynylene)s: π - π Interactions or Planarization of the Conjugated Backbone?. Macromolecules, 2000, 33, 652-654.	4.8	195