Liam C Palmer

List of Publications by Year
in descending order

65 papers	7,412 citations	87888 38 h-index	110387 64 g-index
69 all docs	69 docs citations	69 times ranked	9447 citing authors

#	Article	IF	Citations
1	Biomimetic Systems for Hydroxyapatite Mineralization Inspired By Bone and Enamel. Chemical Reviews, 2008, 108, 4754-4783.	47.7	934
2	Molecular Self-Assembly into One-Dimensional Nanostructures. Accounts of Chemical Research, 2008, 41, 1674-1684.	15.6	699
3	A self-assembly pathway to aligned monodomain gels. Nature Materials, 2010, 9, 594-601.	27.5	576
4	Supramolecular Chemistry and Self-Assembly in Organic Materials Design. Chemistry of Materials, 2014, 26, 507-518.	6.7	421
5	Supramolecular Assembly of Peptide Amphiphiles. Accounts of Chemical Research, 2017, 50, 2440-2448.	15.6	414
6	Self-assembling hydrogel scaffolds for photocatalytic hydrogen production. Nature Chemistry, 2014, 6, 964-970.	13.6	394
7	Energy landscapes and functions of supramolecular systems. Nature Materials, 2016, 15, 469-476.	27.5	348
8	Peptide supramolecular materials for therapeutics. Chemical Society Reviews, 2018, 47, 7539-7551.	38.1	208
9	Interplay of Thermochromicity and Liquid Crystalline Behavior in Poly(p-phenyleneethynylene)s:Â Ï€â^Ï€ Interactions or Planarization of the Conjugated Backbone?. Macromolecules, 2000, 33, 652-654.	4.8	195
10	Light-Driven Expansion of Spiropyran Hydrogels. Journal of the American Chemical Society, 2020, 142, 8447-8453.	13.7	190
11	Supramolecularâ€“covalent hybrid polymers for light-activated mechanical actuation. Nature Materials, 2020, 19, 900-909.	27.5	186
12	The ins and outs of molecular encapsulation. Organic and Biomolecular Chemistry, 2004, 2, 3051.	2.8	174
13	Simultaneous covalent and noncovalent hybrid polymerizations. Science, 2016, 351, 497-502.	12.6	164
14	Fast and programmable locomotion of hydrogel-metal hybrids under light and magnetic fields. Science Robotics, 2020, 5, .	17.6	163
15	Internal dynamics of a supramolecular nanofibre. Nature Materials, 2014, 13, 812-816.	27.5	154
16	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
17	Supramolecular Packing Controls H₂ Photocatalysis in Chromophore Amphiphile Hydrogels. Journal of the American Chemical Society, 2015, 137, 15241-15246.	13.7	107
18	Covalent-supramolecular hybrid polymers as muscle-inspired anisotropic actuators. Nature Communications, 2018, 9, 2395.	12.8	102

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19	Supramolecular self-assembly codes for functional structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1417-1433.	3.4	98
20	Self-assembly and conductivity of hydrogen-bonded oligothiophene nanofiber networks. Chemical Communications, 2011, 47, 5702.	4.1	95
21	Extended-Charge-Transfer Excitons in Crystalline Supramolecular Photocatalytic Scaffolds. Journal of the American Chemical Society, 2016, 138, 11762-11774.	13.7	91
22	Self-Assembly of Highly Ordered Peptide Amphiphile Metalloporphyrin Arrays. Journal of the American Chemical Society, 2012, 134, 14646-14649.	13.7	87
23	Self-assembly of biomolecular soft matter. Faraday Discussions, 2013, 166, 9.	3.2	84
24	Hydrocarbon Binding Inside a Hexameric Pyrogallol[4]arene Capsule. Organic Letters, 2005, 7, 787-789.	4.6	81
25	A Templating Approach for Monodisperse Self-Assembled Organic Nanostructures. Journal of the American Chemical Society, 2008, 130, 2742-2743.	13.7	79
26	Co-assembly of Peptide Amphiphiles and Lipids into Supramolecular Nanostructures Driven by Anionâ^Ï€ Interactions. Journal of the American Chemical Society, 2017, 139, 7823-7830.	13.7	75
27	Programmable Assembly of Peptide Amphiphile via Noncovalent-to-Covalent Bond Conversion. Journal of the American Chemical Society, 2017, 139, 8995-9000.	13.7	68
28	Buckled Membranes in Mixed-Valence Ionic Amphiphile Vesicles. Journal of the American Chemical Society, 2009, 131, 12030-12031.	13.7	66
29	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. Journal of the American Chemical Society, 2017, 139, 6120-6127.	13.7	60
30	Structure and chemical stability in perovskiteâ€“polymer hybrid photovoltaic materials. Journal of Materials Chemistry A, 2019, 7, 1687-1699.	10.3	60
31	Self-Assembly and Orientation of Hydrogen-Bonded Oligothiophene Polymorphs at Liquidâ€“Membraneâ€“Liquid Interfaces. Journal of the American Chemical Society, 2011, 133, 16486-16494.	13.7	57
32	Synergistic photoactuation of bilayered spiropyran hydrogels for predictable origami-like shape change. Matter, 2021, 4, 1377-1390.	10.0	57
33	Molecular Crystallization Controlled by pH Regulates Mesoscopic Membrane Morphology. ACS Nano, 2012, 6, 10901-10909.	14.6	56
34	Grooved Nanowires from Self-Assembling Hairpin Molecules for Solar Cells. ACS Nano, 2012, 6, 2032-2040.	14.6	55
35	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. Journal of the American Chemical Society, 2017, 139, 8915-8921.	13.7	53
36	Resorcinarene assemblies as synthetic receptors. Chemical Communications, 2005, , 857.	4.1	46

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37	Supramolecular Exchange among Assemblies of Opposite Charge Leads to Hierarchical Structures. Journal of the American Chemical Society, 2020, 142, 12216-12225.	13.7	44
38	Crystalline polymorphism induced by charge regulation in ionic membranes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16309-16314.	7.1	40
39	Asymmetric Peptide Nanoribbons. Nano Letters, 2016, 16, 6967-6974.	9.1	38
40	Electrostatic Control of Polymorphism in Charged Amphiphile Assemblies. Journal of Physical Chemistry B, 2017, 121, 1623-1628.	2.6	37
41	Chromophore amphiphileâ€“polyelectrolyte hybrid hydrogels for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2020, 8, 158-168.	10.3	33
42	Self-Repair of Structure and Bioactivity in a Supramolecular Nanostructure. Nano Letters, 2018, 18, 6832-6841.	9.1	31
43	Design of Biomolecules for Nanoengineered Biomaterials for Regenerative Medicine. Methods in Molecular Biology, 2012, 811, 39-49.	0.9	29
44	Long-Range Ordering of Highly Charged Self-Assembled Nanofilaments. Journal of the American Chemical Society, 2014, 136, 14377-14380.	13.7	28
45	Development of Optimized Tissue-Factor-Targeted Peptide Amphiphile Nanofibers to Slow Noncompressible Torso Hemorrhage. ACS Nano, 2020, 14, 6649-6662.	14.6	28
46	Oriented Multiwalled Organicâ€“Co(OH) 2 Nanotubes for Energy Storage. Advanced Functional Materials, 2018, 28, 1702320.	14.9	26
47	Chiral Recognition of Lipid Bilayer Membranes by Supramolecular Assemblies of Peptide Amphiphiles. ACS Biomaterials Science and Engineering, 2019, 5, 2786-2792.	5.2	26
48	Supramolecular Interactions and Morphology of Self-Assembling Peptide Amphiphile Nanostructures. Nano Letters, 2021, 21, 6146-6155.	9.1	26
49	Transforming Growth Factor Î²-1 Binding by Peptide Amphiphile Hydrogels. ACS Biomaterials Science and Engineering, 2020, 6, 4551-4560.	5.2	19
50	New supramolecular organization for a glycoluril: chiral hydrogen-bonded ribbons. Chemical Communications, 2002, , 2228.	4.1	18
51	Diastereoselection of chiral acids in a cylindrical capsule. Chemical Communications, 2005, , 3667.	4.1	18
52	Growth of Extra-Large Chromophore Supramolecular Polymers for Enhanced Hydrogen Production. Nano Letters, 2021, 21, 3745-3752.	9.1	18
53	Supramolecular Copolymers of Peptides and Lipidated Peptides and Their Therapeutic Potential. Journal of the American Chemical Society, 2022, 144, 5562-5574.	13.7	16
54	Supramolecular and Hybrid Bonding Polymers. Israel Journal of Chemistry, 2020, 60, 124-131.	2.3	15

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55	Glycoluril ribbons tethered by complementary hydrogen bonds. Chemical Communications, 2003, , 1638-1639.	4.1	14
56	Self-sorting in supramolecular assemblies. Soft Matter, 2021, 17, 3902-3912.	2.7	14
57	Solid-phase approaches toward cyclic oligomers. Tetrahedron, 2001, 57, 9055-9065.	1.9	11
58	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
59	Modeling Interactions within and between Peptide Amphiphile Supramolecular Filaments. Journal of Physical Chemistry B, 2022, 126, 650-659.	2.6	9
60	Hybrid gels via bulk interfacial complexation of supramolecular polymers and polyelectrolytes. Soft Matter, 2021, 17, 4949-4956.	2.7	8
61	Hybrid Nanocrystals of Small Molecules and Chemically Disordered Polymers. ACS Nano, 2022, 16, 8993-9003.	14.6	8
62	Acid-Base Equilibrium and Dielectric Environment Regulate Charge in Supramolecular Nanofibers. Frontiers in Chemistry, 2022, 10, 852164.	3.6	6
63	Energy Storage: Oriented Multiwalled Organicâ€“Co(OH)₂ Nanotubes for Energy Storage (Adv. Funct. Mater. 3/2018). Advanced Functional Materials, 2018, 28, 1870019.	14.9	1
64	Crystalline Supramolecular Polymers: Dynamics, Chirality, and Function. Israel Journal of Chemistry, 2021, 61, 873-883.	2.3	1
65	The Ins and Outs of Molecular Encapsulation.. ChemInform, 2005, 36, no.	0.0	0