

Kyle N Plunkett

List of Publications by Year in descending order

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37
papers

1,936
citations

257101

24
h-index

301761

39
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59
all docs

59
docs citations

59
times ranked

2889
citing authors

#	ARTICLE	IF	CITATIONS
1	PNIPAM Chain Collapse Depends on the Molecular Weight and Grafting Density. <i>Langmuir</i> , 2006, 22, 4259-4266.	1.6	372
2	Chymotrypsin Responsive Hydrogel: Application of a Disulfide Exchange Protocol for the Preparation of Methacrylamide Containing Peptides. <i>Biomacromolecules</i> , 2005, 6, 632-637.	2.6	133
3	Irreversible Catalyst Activation Enables Hyperpolarization and Water Solubility for NMR Signal Amplification by Reversible Exchange. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13882-13889.	1.2	131
4	Electron Acceptors Based on Functionalizable Cyclopenta[<i>h</i>]aceanthrylenes and Dicyclopenta[<i>de,mn</i>]tetracenes. <i>Journal of the American Chemical Society</i> , 2012, 134, 15783-15789.	6.6	125
5	Conjugated Ladder Polymers by a Cyclopentannulation Polymerization. <i>Journal of the American Chemical Society</i> , 2017, 139, 5801-5807.	6.6	96
6	A Highly Active, Heterogeneous Catalyst for Alkyne Metathesis. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 585-588.	7.2	73
7	Bending contorted hexabenzocoronene into a bowl. <i>Chemical Science</i> , 2011, 2, 132-135.	3.7	69
8	The Uptake of Soluble and Particulate Antigens by Epithelial Cells in the Mouse Small Intestine. <i>PLoS ONE</i> , 2014, 9, e86656.	1.1	69
9	Swelling Kinetics of Disulfide Cross-Linked Microgels. <i>Macromolecules</i> , 2003, 36, 3960-3966.	2.2	68
10	Stabilizing Pentacene By Cyclopentannulation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15762-15766.	7.2	68
11	Expeditious Synthesis of Contorted Hexabenzocoronenes. <i>Organic Letters</i> , 2009, 11, 2225-2228.	2.4	66
12	Controlling Chain Conformation in Conjugated Polymers Using Defect Inclusion Strategies. <i>Journal of the American Chemical Society</i> , 2011, 133, 10155-10160.	6.6	52
13	Patterned Dual pH-Responsive Core-Shell Hydrogels with Controllable Swelling Kinetics and Volumes. <i>Langmuir</i> , 2004, 20, 6535-6537.	1.6	49
14	Light-Regulated Electrostatic Interactions in Colloidal Suspensions. <i>Journal of the American Chemical Society</i> , 2005, 127, 14574-14575.	6.6	49
15	Electron Acceptors Based on an All-Carbon Donor-Acceptor Copolymer. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12321-12324.	7.2	47
16	What About the Five-Membered Ring? Cyclopenta-fused Polycyclic Aromatic Hydrocarbons as a Building Block for Functional Materials. <i>Synlett</i> , 2013, 24, 898-902.	1.0	46
17	Donor-Acceptor Shape Matching Drives Performance in Photovoltaics. <i>Advanced Energy Materials</i> , 2013, 3, 894-902.	10.2	43
18	Contorted aromatics via a palladium-catalyzed cyclopentannulation strategy. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3963-3969.	2.7	41

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19	A Simple and Practical Method for Incorporating Augmented Reality into the Classroom and Laboratory. <i>Journal of Chemical Education</i> , 2019, 96, 2628-2631.	1.1	39
20	Pentaleno[1,2- <i>a</i> :4,5- <i>b</i>]diacenaphthylenes: Uniquely Stabilized Pentalene Derivatives. <i>Journal of Organic Chemistry</i> , 2016, 81, 8312-8318.	1.7	37
21	Introduction to Photolithography: Preparation of Microscale Polymer Silhouettes. <i>Journal of Chemical Education</i> , 2005, 82, 1365.	1.1	33
22	Unmasking Bulk Exciton Traps and Interchain Electronic Interactions with Single Conjugated Polymer Aggregates. <i>ACS Nano</i> , 2012, 6, 523-529.	7.3	30
23	Orthogonal Functionalization of Cyclopenta[<i>h</i>]aceanthrylenes. <i>Organic Letters</i> , 2013, 15, 1202-1205.	2.4	27
24	Construction of Donor-Acceptor Polymers via Cyclopentannulation of Poly(arylene ethynylene)s. <i>Macromolecules</i> , 2016, 49, 127-133.	2.2	20
25	Directing the Conformation of Oligo(phenylenevinylene) Polychromophores with Rigid, Nonconjugatable Morphons. <i>Macromolecules</i> , 2016, 49, 3838-3844.	2.2	19
26	Electron Acceptors Based on Cyclopentannulated Tetracenes. <i>Synlett</i> , 2018, 29, 2572-2576.	1.0	11
27	Electron Acceptors Based on Cyclopentannulated Anthanthrenes. <i>Journal of Organic Chemistry</i> , 2021, 86, 1456-1461.	1.7	11
28	Cyclopentannulation and cyclodehydrogenation of isomerically pure 5,11-dibromo-anthradithiophenes leading to contorted aromatics. <i>Chemical Communications</i> , 2018, 54, 14140-14143.	2.2	10
29	Dicyclopenta[<i>cd,jk</i>]pyrene based acceptors in conjugated polymers. <i>Polymer Chemistry</i> , 2016, 7, 292-296.	1.9	9
30	Controlling the folding of conjugated polymers at the single molecule level via hydrogen bonding. <i>Polymer Chemistry</i> , 2017, 8, 1188-1195.	1.9	8
31	Niclosamide™s potential direct targets in ovarian cancer. <i>Biology of Reproduction</i> , 2021, 105, 403-412.	1.2	7
32	1,1-Biaceanthrylene and 2,2-Biaceanthrylene: Models for Linking Larger Polycyclic Aromatic Hydrocarbons via Five-Membered Rings. <i>Journal of Organic Chemistry</i> , 2020, 85, 79-84.	1.7	5
33	Inhibition of the Protein Phosphatase CppA Alters Development of <i>Chlamydia trachomatis</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	4
34	Functional Poly(<i>p</i> -xylylene)s via Chemical Reduction of Poly(<i>p</i> -phenylenevinylene)s. <i>Macromolecules</i> , 2019, 52, 9799-9803.	2.2	4
35	Benzodithiophene-Fused Cyclopentannulated Aromatics via a Palladium-Catalyzed Cyclopentannulation and Scholl Cyclodehydrogenation Strategy. <i>Journal of Organic Chemistry</i> , 2021, 86, 12569-12576.	1.7	4
36	Donor-Acceptor copolymers from cyclopentannulation polymerizations with dicyclopenta[<i>cd,jk</i>]pyrene and dicyclopenta[<i>cd,lm</i>] perylene acceptors. <i>Journal of Polymer Science</i> , 2020, 58, 3165-3169.	2.0	3

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37	Synthesis of anthradithiophene containing conjugated polymers <i>via</i> a cross-coupling strategy. RSC Advances, 2021, 11, 996-1000.	1.7	1