

# Kevin L Kohlstedt

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

2,187  
citations

279798

23  
h-index

276875

41  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3497  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regiospecific <i>N</i> -alkyl substitution tunes the molecular packing of high-performance non-fullerene acceptors. <i>Materials Horizons</i> , 2022, 9, 403-410.	12.2	42
2	Non-fullerene acceptors with direct and indirect hexa-fluorination afford >17% efficiency in polymer solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 645-659.	30.8	65
3	Impact of $\pi$ -Conjugation Length on the Excited-State Dynamics of Star-Shaped Carbazole- $\pi$ -Triazine Organic Chromophores. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3291-3300.	2.5	2
4	Unfolding bovine $\beta$ -lactalbumin with T-jump: Characterizing disordered intermediates via time-resolved x-ray solution scattering and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2021, 154, 105101.	3.0	15
5	Systematic Merging of Nonfullerene Acceptor $\pi$ -Extension and Tetrafluorination Strategies Affords Polymer Solar Cells with >16% Efficiency. <i>Journal of the American Chemical Society</i> , 2021, 143, 6123-6139.	13.7	125
6	Nanotechnology for catalysis and solar energy conversion. <i>Nanotechnology</i> , 2021, 32, 042003.	2.6	44
7	Resolving Dynamics in the Ensemble: Finding Paths through Intermediate States and Disordered Protein Structures. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12401-12412.	2.6	4
8	Crystallography, Morphology, Electronic Structure, and Transport in Non-Fullerene/Non-Indacenodithienothiophene Polymer:Y6 Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 14532-14547.	13.7	214
9	Fluorinating $\pi$ -Extended Molecular Acceptors Yields Highly Connected Crystal Structures and Low Reorganization Energies for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000635.	19.5	78
10	Integrating solvation shell structure in experimentally driven molecular dynamics using x-ray solution scattering data. <i>Journal of Chemical Physics</i> , 2020, 152, 204115.	3.0	14
11	Photovoltaic Blend Microstructure for High Efficiency Post-Fullerene Solar Cells. To Tilt or Not To Tilt?. <i>Journal of the American Chemical Society</i> , 2019, 141, 13410-13420.	13.7	33
12	Are Transport Models Able To Predict Charge Carrier Mobilities in Organic Semiconductors?. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29499-29512.	3.1	12
13	Building Blocks for High-Efficiency Organic Photovoltaics: Interplay of Molecular, Crystal, and Electronic Properties in Post-Fullerene ITIC Ensembles. <i>ChemPhysChem</i> , 2019, 20, 2608-2626.	2.1	42
14	Wave Functions, Density Functionals, and Artificial Intelligence for Materials and Energy Research: Future Prospects and Challenges. <i>ACS Energy Letters</i> , 2018, 3, 155-162.	17.4	16
15	Introduction to Organic Semiconductors Using Accessible Undergraduate Chemistry Concepts. <i>Journal of Chemical Education</i> , 2018, 95, 1500-1511.	2.3	4
16	Design principles for photonic crystals based on plasmonic nanoparticle superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7242-7247.	7.1	57
17	Closely packed, low reorganization energy $\pi$ -extended postfullerene acceptors for efficient polymer solar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8341-E8348.	7.1	126
18	Improved Scaling of Molecular Network Calculations: The Emergence of Molecular Domains. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 415-421.	4.6	14

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19	Deterministic Symmetry Breaking of Plasmonic Nanostructures Enabled by DNA-Programmable Assembly. <i>Nano Letters</i> , 2017, 17, 5830-5835.	9.1	19
20	The competing effects of core rigidity and linker flexibility in the nanoassembly of trivalent small molecule-DNA hybrids (SMDH <sub>3</sub> )—a synergistic experimental-modeling study. <i>Nanoscale</i> , 2017, 9, 12652-12663.	5.6	3
21	A n-vector model for charge transport in molecular semiconductors. <i>Journal of Chemical Physics</i> , 2016, 145, 204102.	3.0	6
22	Mind the Gap. <i>ACS Central Science</i> , 2016, 2, 278-280.	11.3	5
23	Design Considerations for RNA Spherical Nucleic Acids (SNAs). <i>Bioconjugate Chemistry</i> , 2016, 27, 2124-2131.	3.6	39
24	What Controls the Hybridization Thermodynamics of Spherical Nucleic Acids?. <i>Journal of the American Chemical Society</i> , 2015, 137, 3486-3489.	13.7	79
25	Uniform Circular Disks With Synthetically Tailorable Diameters: Two-Dimensional Nanoparticles for Plasmonics. <i>Nano Letters</i> , 2015, 15, 1012-1017.	9.1	90
26	Conformational Order in Aggregates of Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 6254-6262.	13.7	177
27	Self-assembly of reconfigurable colloidal molecules. <i>Soft Matter</i> , 2014, 10, 3541.	2.7	25
28	Structural and Conformational Dispersion in the Rational Design of Conjugated Polymers. <i>Macromolecules</i> , 2014, 47, 987-992.	4.8	42
29	Mesoscale molecular network formation in amorphous organic materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10055-10060.	7.1	79
30	Controlling Orientational Order in 1-D Assemblies of Multivalent Triangular Prisms. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 203-208.	4.6	11
31	Synthesis, Assembly, and Image Analysis of Spheroidal Patchy Particles. <i>Langmuir</i> , 2013, 29, 4688-4696.	3.5	63
32	Controlling Conformations of Conjugated Polymers and Small Molecules: The Role of Nonbonding Interactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 10475-10483.	13.7	386
33	Growth Dynamics for DNA-Guided Nanoparticle Crystallization. <i>ACS Nano</i> , 2013, 7, 10948-10959.	14.6	24
34	Self-assembly and tunable mechanics of reconfigurable colloidal crystals. <i>Physical Review E</i> , 2013, 87, .	2.1	11
35	Liquid Crystal Order in Colloidal Suspensions of Spheroidal Particles by Direct Current Electric Field Assembly. <i>Small</i> , 2012, 8, 1551-1562.	10.0	71
36	Electrostatics and optimal arrangement of ionic triangular lattices confined to cylindrical fibers. <i>Physical Review E</i> , 2009, 80, 051503.	2.1	5

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37	The electrostatic origin of chiral patterns on nanofibers. <i>Soft Matter</i> , 2009, 5, 736.	2.7	15
38	Protofibril Assemblies of the Arctic, Dutch, and Flemish Mutants of the Alzheimer's A $\beta$ 40 Peptide. <i>Biophysical Journal</i> , 2008, 94, 2007-2016.	0.5	54
39	Contrasting Disease and Nondisease Protein Aggregation by Molecular Simulation. <i>Accounts of Chemical Research</i> , 2008, 41, 1037-1047.	15.6	34
40	Spontaneous Chirality via Long-Range Electrostatic Forces. <i>Physical Review Letters</i> , 2007, 99, 030602.	7.8	30
41	Patterning Cylindrical Fibers with Long-Range Electrostatic Forces. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1062, 1.	0.1	0
42	Fluorine Tuning of Morphology, Energy Loss, and Carrier Dynamics in Perylenediimide Polymer Solar Cells. <i>ACS Energy Letters</i> , 0, , .	17.4	11