

Daniel B Knorr Jr

List of Publications by Year in descending order

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37
papers

1,055
citations

471509

17
h-index

414414

32
g-index

37
all docs

37
docs citations

37
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic Nanoengineering of Soft Matter Organic Electro-optic Materials. <i>Chemistry of Materials</i> , 2011, 23, 430-445.	6.7	129
2	Supramolecular Self-Assembled Dendritic Nonlinear Optical Chromophores: Fine-Tuning of Arene-Perfluoroarene Interactions for Ultralarge Electro-Optic Activity and Enhanced Thermal Stability. <i>Advanced Materials</i> , 2009, 21, 1976-1981.	21.0	96
3	Synthesis and Characterization of Aminopropyltriethoxysilane-Polydopamine Coatings. <i>Langmuir</i> , 2016, 32, 4370-4381.	3.5	76
4	Overcoming the structural versus energy dissipation trade-off in highly crosslinked polymer networks: Ultrahigh strain rate response in polydicyclopentadiene. <i>Composites Science and Technology</i> , 2015, 114, 17-25.	7.8	63
5	Expanded Functionality of Polymers Prepared Using Metal-Free Ring-Opening Metathesis Polymerization. <i>ACS Macro Letters</i> , 2016, 5, 579-582.	4.8	63
6	Polydopamine and Polydopamine-Silane Hybrid Surface Treatments in Structural Adhesive Applications. <i>Langmuir</i> , 2018, 34, 1274-1286.	3.5	63
7	Influence of molecular weight between crosslinks on the mechanical properties of polymers formed via ring-opening metathesis. <i>Soft Matter</i> , 2018, 14, 3344-3360.	2.7	60
8	Mesoscale Dynamics and Cooperativity of Networking Dendronized Nonlinear Optical Molecular Glasses. <i>Nano Letters</i> , 2008, 8, 754-759.	9.1	52
9	Glass transition dependence of ultrahigh strain rate response in amine cured epoxy resins. <i>Polymer</i> , 2012, 53, 5917-5923.	3.8	50
10	Nanovoid formation and mechanics: a comparison of poly(dicyclopentadiene) and epoxy networks from molecular dynamics simulations. <i>Soft Matter</i> , 2016, 12, 4418-4434.	2.7	49
11	Failure processes governing high-rate impact resistance of epoxy resins filled with core-shell rubber nanoparticles. <i>Journal of Materials Science</i> , 2016, 51, 2347-2370.	3.7	45
12	Relating structure and chain dynamics to ballistic performance in transparent epoxy networks exhibiting nanometer scale heterogeneity. <i>Polymer</i> , 2015, 58, 96-106.	3.8	30
13	Nano-Engineering Lattice Dimensionality for a Soft Matter Organic Functional Material. <i>Advanced Materials</i> , 2012, 24, 3263-3268.	21.0	25
14	Nanoscale Phase Analysis of Molecular Cooperativity and Thermal Transitions in Dendritic Nonlinear Optical Glasses. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13793-13805.	2.6	24
15	Molecular Weight Control via Cross Metathesis in Photo-Redox Mediated Ring-Opening Metathesis Polymerization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9074-9079.	13.8	23
16	Dynamic heterogeneity in epoxy networks for protection applications. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	20
17	Surface modification of carbon fibres using ring-opening metathesis polymerization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106374.	7.6	19
18	Influence of temperature dependent matrix properties on the high-rate impact performance of thin glass fiber reinforced composites. <i>Composites Part B: Engineering</i> , 2020, 192, 108009.	12.0	18

#	ARTICLE	IF	CITATIONS
19	Cooperative and submolecular dissipation mechanisms of sliding friction in complex organic systems. <i>Journal of Chemical Physics</i> , 2008, 129, 074504.	3.0	17
20	Intrinsic friction analysis—Novel nanoscopic access to molecular mobility in constrained organic systems. <i>Ultramicroscopy</i> , 2009, 109, 991-1000.	1.9	16
21	Molecular Mobility in Self-Assembled Dendritic Chromophore Glasses. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14180-14188.	2.6	15
22	The temperature-dependent ballistic performance and the ductile-to-brittle transition in polymer networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 511-523.	2.1	15
23	Carbon fiber polypropylene interphase modification as a route to improved toughness. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 159, 107001.	7.6	14
24	Influence of Hydroxyl Group Concentration on Mechanical Properties and Impact Resistance of ROMP Copolymers. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2414-2425.	4.4	13
25	Molecular friction dissipation and mode coupling in organic monolayers and polymer films. <i>Journal of Chemical Physics</i> , 2011, 134, 104502.	3.0	11
26	Assessing the properties of Poly(dicyclopentadiene) reinforced with discontinuous carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 155, 106839.	7.6	11
27	Influence of Interfacial Bonding on the Mechanical and Impact Properties Ring-Opening Metathesis Polymer (ROMP) Silica Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53342-53355.	8.0	8
28	Insight into reverse selectivity and relaxation behavior of poly[1-(trimethylsilyl)-1-propyne] by flux-lateral force and intrinsic friction microscopy. <i>Journal of Membrane Science</i> , 2010, 346, 302-309.	8.2	6
29	Manipulation of Interfacial Amine Density in Epoxy-Amine Systems as Studied by Near-Edge X-ray Absorption Fine Structure (NEXAFS). <i>Langmuir</i> , 2012, 28, 15294-15304.	3.5	5
30	Ballistic Response of Polydicyclopentadiene vs. Epoxy Resins and Effects of Crosslinking. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 285-290.	0.5	5
31	Molecular Weight Control via Cross Metathesis in Photo-Redox Mediated Ring-Opening Metathesis Polymerization. <i>Angewandte Chemie</i> , 2020, 132, 9159-9164.	2.0	5
32	Multiple local hydroxyl groups as a way to improve bond strength and durability in structural adhesives. <i>Journal of Adhesion</i> , 2022, 98, 1834-1854.	3.0	5
33	Theory-guided enhancement of poling efficiency of organic electro-optic materials. , 2010, , .		3
34	Role of Glass Transition Temperature on Energy Absorption Mechanisms in High Strain Rate Impact Performance of Fiber Reinforced Composites. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021, , 99-104.	0.5	1
35	Failure Processes Governing High Rate Impact Resistance of Epoxy Resins Filled with Core Shell Rubber Nanoparticles. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 271-283.	0.5	0
36	Evaluation of dopamine and dopamine derivatives as additives in epoxy resin for structural adhesive applications. <i>Journal of Adhesion</i> , 0, , 1-16.	3.0	0

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37	Ring-opening metathesis polymerization (ROMP) polymers as structural adhesives and the effects of silane coupling agents on their lap shear properties. Journal of Adhesion Science and Technology, 0, , 1-16.	2.6	0