

Eric Schaible

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,311
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257101

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times ranked

4957
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid-free covalent reinforcement of carbon nanotube dry-spun yarns and free-standing sheets. <i>Carbon</i> , 2022, 187, 415-424.	5.4	11
2	Distinguishing Gas-Phase and Nanoparticle Contributions to Small-Angle X-ray Scattering in Reacting Aerosol Flows. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3015-3026.	1.1	6
3	Soot-particle core-shell and fractal structures from small-angle X-ray scattering measurements in a flame. <i>Carbon</i> , 2022, 196, 440-456.	5.4	10
4	Nanolattice-Forming Hybrid Collagens in Protective Shark Egg Cases. <i>Biomacromolecules</i> , 2022, 23, 2878-2890.	2.6	0
5	Mechanically tunable elastomer and cellulose nanocrystal composites as scaffolds for <i>in vitro</i> cell studies. <i>Materials Advances</i> , 2021, 2, 464-476.	2.6	15
6	Effect of crystallization of the polyhedral oligomeric silsesquioxane block on self-assembly in hybrid organic-inorganic block copolymers with salt. <i>Giant</i> , 2021, 6, 100055.	2.5	10
7	Nanolatticed Architecture Mitigates Damage in Shark Egg Cases. <i>Nano Letters</i> , 2021, 21, 8080-8085.	4.5	2
8	High-yield growth kinetics and spatial mapping of single-walled carbon nanotube forests at wafer scale. <i>Carbon</i> , 2020, 159, 236-246.	5.4	15
9	The role of collagen in the dermal armor of the boxfish. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13825-13841.	2.6	7
10	Structure and Mechanical Adaptability of a Modern Elasmoid Fish Scale from the Common Carp. <i>Matter</i> , 2020, 3, 842-863.	5.0	47
11	Dynamic Structure and Phase Behavior of a Block Copolymer Electrolyte under dc Polarization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57421-57430.	4.0	13
12	Electrophoresis Assisted Printing: A Method To Control the Morphology in Organic Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5219-5225.	4.0	6
13	Biomimetics: On the Origins of Fracture Toughness in Advanced Teleosts: How the Swordfish Sword's Bone Structure and Composition Allow for Slashing under Water to Kill or Stun Prey (<i>Adv. Sci.</i>) Tj ETQq1 1 0.7843146gBT /Overlock 1		
14	Chronic kidney disease and aging differentially diminish bone material and microarchitecture in C57Bl/6 mice. <i>Bone</i> , 2019, 127, 91-103.	1.4	37
15	On the Origins of Fracture Toughness in Advanced Teleosts: How the Swordfish Sword's Bone Structure and Composition Allow for Slashing under Water to Kill or Stun Prey. <i>Advanced Science</i> , 2019, 6, 1900287.	5.6	14
16	Mechanical Competence and Bone Quality Develop During Skeletal Growth. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 1461-1472.	3.1	41
17	Correlations between Salt-Induced Crystallization, Morphology, Segmental Dynamics, and Conductivity in Amorphous Block Copolymer Electrolytes. <i>Macromolecules</i> , 2018, 51, 1733-1740.	2.2	27
18	Contributions of Material Properties and Structure to Increased Bone Fragility for a Given Bone Mass in the UCD-T2DM Rat Model of Type 2 Diabetes. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1066-1075.	3.1	57

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19	Modulation of Carrier Type in Nanocrystal-in-Matrix Composites by Interfacial Doping. <i>Chemistry of Materials</i> , 2018, 30, 2544-2549.	3.2	1
20	Novel Defense Mechanisms in the Armor of the Scales of the "Living Fossil" Coelacanth Fish. <i>Advanced Functional Materials</i> , 2018, 28, 1804237.	7.8	61
21	In Situ X-ray Scattering Studies of the Influence of an Additive on the Formation of a Low-Bandgap Bulk Heterojunction. <i>Chemistry of Materials</i> , 2017, 29, 2283-2293.	3.2	23
22	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [PbI ₆] ⁴⁻ cage nanoparticles. <i>Nature Communications</i> , 2017, 8, 15688.	5.8	191
23	Effect of block copolymer morphology on crystallization and water transport. <i>Polymer</i> , 2017, 120, 209-216.	1.8	10
24	Printing Fabrication of Bulk Heterojunction Solar Cells and In Situ Morphology Characterization. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	1
25	Note: Setup for chemical atmospheric control during in situ grazing incidence X-ray scattering of printed thin films. <i>Review of Scientific Instruments</i> , 2017, 88, 066101.	0.6	13
26	An in situ GISAXS study of selective solvent vapor annealing in thin block copolymer films: Symmetry breaking of in-plane sphere order upon deswelling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 331-338.	2.4	40
27	Intrinsic mechanical behavior of femoral cortical bone in young, osteoporotic and bisphosphonate-treated individuals in low- and high energy fracture conditions. <i>Scientific Reports</i> , 2016, 6, 21072.	1.6	65
28	Thermal stability and thermal aging of poly(vinyl chloride)/MgAl layered double hydroxides composites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016, 34, 542-551.	2.0	21
29	Real-time X-ray scattering studies of film evolution in high performing small-molecule fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8764-8771.	5.2	42
30	Ordering in Polymer Micelle-Directed Assemblies of Colloidal Nanocrystals. <i>Nano Letters</i> , 2015, 15, 8240-8244.	4.5	21
31	Topological Effects on Globular Protein-ELP Fusion Block Copolymer Self-Assembly. <i>Advanced Functional Materials</i> , 2015, 25, 729-738.	7.8	40
32	On the tear resistance of skin. <i>Nature Communications</i> , 2015, 6, 6649.	5.8	297
33	Nanocrystal Superlattice Embedded within an Inorganic Semiconducting Matrix by in Situ Ligand Exchange: Fabrication and Morphology. <i>Chemistry of Materials</i> , 2015, 27, 2755-2758.	3.2	10
34	Alendronate treatment alters bone tissues at multiple structural levels in healthy canine cortical bone. <i>Bone</i> , 2015, 81, 352-363.	1.4	58
35	Fast Printing and In Situ Morphology Observation of Organic Photovoltaics Using Slot-Die Coating. <i>Advanced Materials</i> , 2015, 27, 886-891.	11.1	117
36	In Situ Morphology Studies of the Mechanism for Solution Additive Effects on the Formation of Bulk Heterojunction Films. <i>Advanced Energy Materials</i> , 2015, 5, 1400975.	10.2	102

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37	Fracture resistance of human cortical bone across multiple length-scales at physiological strain rates. <i>Biomaterials</i> , 2014, 35, 5472-5481.	5.7	125
38	Protective role of <i>Arapaima gigas</i> fish scales: Structure and mechanical behavior. <i>Acta Biomaterialia</i> , 2014, 10, 3599-3614.	4.1	161
39	Effect of sequential treatments with alendronate, parathyroid hormone (^{14}C) and raloxifene on cortical bone mass and strength in ovariectomized rats. <i>Bone</i> , 2014, 67, 257-268.	1.4	24
40	Mechanical adaptability of the Bouligand-type structure in natural dermal armour. <i>Nature Communications</i> , 2013, 4, 2634.	5.8	277
41	Evolution of Ordered Metal Chalcogenide Architectures through Chemical Transformations. <i>Journal of the American Chemical Society</i> , 2013, 135, 7446-7449.	6.6	30
42	Morphology and Optical Properties of P3HT:MEH-CN-PPV Blend Films. <i>Macromolecules</i> , 2013, 46, 4491-4501.	2.2	47
43	Noninvasive histological comparison of bone growth patterns among fossil and extant neonatal elephantids using synchrotron radiation X-ray microtomography. <i>Journal of Vertebrate Paleontology</i> , 2012, 32, 939-955.	0.4	27
44	Characterization of the effects of x-ray irradiation on the hierarchical structure and mechanical properties of human cortical bone. <i>Biomaterials</i> , 2011, 32, 8892-8904.	5.7	250
45	Age-related changes in the plasticity and toughness of human cortical bone at multiple length scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14416-14421.	3.3	325
46	A SAXS/WAXS/GISAXS Beamline with Multilayer Monochromator. <i>Journal of Physics: Conference Series</i> , 2010, 247, 012007.	0.3	522
47	Characterizing the nano and micro structure of concrete to improve its durability. <i>Cement and Concrete Composites</i> , 2009, 31, 577-584.	4.6	91