

# Jong K Keum

## List of Publications by Year in descending order

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146  
papers

6,876  
citations

53794

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66911

78  
g-index

150  
all docs

150  
docs citations

150  
times ranked

11363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on Supercapacitor Electrode Material from Activated Lignin-Derived Mesoporous Carbon. Langmuir, 2014, 30, 900-910.	3.5	342
2	Confined Crystallization of Polyethylene Oxide in Nanolayer Assemblies. Science, 2009, 323, 757-760.	12.6	334
3	One-Step Synthesis of Nb <sub>2</sub> O <sub>5</sub> /C/Nb <sub>2</sub> C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. ChemSusChem, 2018, 11, 688-699.	6.8	315
4	Perovskite Solar Cells with Near 100% Internal Quantum Efficiency Based on Large Single Crystalline Grains and Vertical Bulk Heterojunctions. Journal of the American Chemical Society, 2015, 137, 9210-9213.	13.7	246
5	Polymer matrix nanocomposites for automotive structural components. Nature Nanotechnology, 2016, 11, 1026-1030.	31.5	214
6	Germanium as negative electrode material for sodium-ion batteries. Electrochemistry Communications, 2013, 34, 41-44.	4.7	206
7	An Air-Stable Na <sub>3</sub> Sb <sub>4</sub> Superionic Conductor Prepared by a Rapid and Economic Synthetic Procedure. Angewandte Chemie - International Edition, 2016, 55, 8551-8555.	13.8	183
8	Uniform Permutation of Quasi-2D Perovskites by Vacuum Poling for Efficient, High-Fill-Factor Solar Cells. Joule, 2019, 3, 3061-3071.	24.0	177
9	The role of interlamellar chain entanglement in deformation-induced structure changes during uniaxial stretching of isotactic polypropylene. Polymer, 2007, 48, 6867-6880.	3.8	173
10	Formation and Stability of Shear-Induced Shish-Kebab Structure in Highly Entangled Melts of UHMWPE/HDPE Blends. Macromolecules, 2008, 41, 4766-4776.	4.8	162
11	Li <sub>2</sub> OHCl Crystalline Electrolyte for Stable Metallic Lithium Anodes. Journal of the American Chemical Society, 2016, 138, 1768-1771.	13.7	147
12	Confined Crystallization of PEO in Nanolayered Films Impacting Structure and Oxygen Permeability. Macromolecules, 2009, 42, 7055-7066.	4.8	133
13	A path for lignin valorization via additive manufacturing of high-performance sustainable composites with enhanced 3D printability. Science Advances, 2018, 4, eaat4967.	10.3	131
14	Surface-Induced Orientation Control of CuPc Molecules for the Epitaxial Growth of Highly Ordered Organic Crystals on Graphene. Journal of the American Chemical Society, 2013, 135, 3680-3687.	13.7	125
15	Identification of site-specific isotopic labels by vibrational spectroscopy in the electron microscope. Science, 2019, 363, 525-528.	12.6	124
16	Photoresponsive Liquid Crystalline Epoxy Networks with Shape Memory Behavior and Dynamic Ester Bonds. ACS Applied Materials & Interfaces, 2016, 8, 15750-15757.	8.0	123
17	Epitaxial stabilization and phase instability of VO <sub>2</sub> polymorphs. Scientific Reports, 2016, 6, 19621.	3.3	114
18	PS- <i>b</i> -P3HT Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. Advanced Materials, 2011, 23, 5529-5535.	21.0	110

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19	The reaction mechanism of SnSb and Sb thin film anodes for Na-ion batteries studied by X-ray diffraction, $^{119}\text{Sn}$ and $^{121}\text{Sb}$ Mössbauer spectroscopies. <i>Journal of Power Sources</i> , 2014, 267, 329-336.	7.8	109
20	The isotopic effects of deuteration on optoelectronic properties of conducting polymers. <i>Nature Communications</i> , 2014, 5, 3180.	12.8	103
21	Thermal Stability of Shear-Induced Shish-Kebab Precursor Structure from High Molecular Weight Polyethylene Chains. <i>Macromolecules</i> , 2006, 39, 2209-2218.	4.8	102
22	Deciphering Halogen Competition in Organometallic Halide Perovskite Growth. <i>Journal of the American Chemical Society</i> , 2016, 138, 5028-5035.	13.7	92
23	A New Class of Renewable Thermoplastics with Extraordinary Performance from Nanostructured Lignin- $\epsilon$ -Elastomers. <i>Advanced Functional Materials</i> , 2016, 26, 2677-2685.	14.9	87
24	Deformation Behavior of Polyethylene/Silicate Nanocomposites As Studied by Real-Time Wide-Angle X-ray Scattering. <i>Macromolecules</i> , 2002, 35, 5529-5535.	4.8	85
25	Crystallization Kinetics of Poly(ethylene oxide) in Confined Nanolayers. <i>Macromolecules</i> , 2010, 43, 3359-3364.	4.8	80
26	Effect of Substrate on the Isothermal Crystallization Kinetics of Confined Poly( $\epsilon$ -caprolactone) Nanolayers. <i>Macromolecules</i> , 2010, 43, 8619-8627.	4.8	78
27	Conjugated Polymer-Mediated Polymorphism of a High Performance, Small-Molecule Organic Semiconductor with Tuned Intermolecular Interactions, Enhanced Long-Range Order, and Charge Transport. <i>Chemistry of Materials</i> , 2013, 25, 4378-4386.	6.7	77
28	A high conductivity oxide-sulfide composite lithium superionic conductor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4111-4116.	10.3	77
29	In Situ Determination of the Liquid/Solid Interface Thickness and Composition for the Li Ion Cathode $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18569-18576.	8.0	68
30	Quantitative Analysis of the Morphology of {101} and {001} Faceted Anatase $\text{TiO}_2$ Nanocrystals and Its Implication on Photocatalytic Activity. <i>Chemistry of Materials</i> , 2017, 29, 5591-5604.	6.7	65
31	Crystallization and Transient Mesophase Structure in Cold-Drawn PET Fibers. <i>Macromolecules</i> , 2003, 36, 9873-9878.	4.8	63
32	Strong and Electrically Conductive Graphene-Based Composite Fibers and Laminates. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10702-10709.	8.0	63
33	Unrivaled combination of surface area and pore volume in micelle-templated carbon for supercapacitor energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13511-13525.	10.3	63
34	Improving performance of TIPS pentacene-based organic thin film transistors with small-molecule additives. <i>Organic Electronics</i> , 2014, 15, 150-155.	2.6	60
35	Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites. <i>Advanced Materials</i> , 2018, 30, e1705801.	21.0	60
36	Probing nucleation and growth behavior of twisted kebabs from shish scaffold in sheared polyethylene melts by in situ X-ray studies. <i>Polymer</i> , 2007, 48, 4511-4519.	3.8	59

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37	Solvent-type-dependent polymorphism and charge transport in a long fused-ring organic semiconductor. <i>Nanoscale</i> , 2014, 6, 449-456.	5.6	59
38	Liquid crystalline epoxy networks with exchangeable disulfide bonds. <i>Soft Matter</i> , 2017, 13, 5021-5027.	2.7	56
39	Amphiphilic Bottlebrush Block Copolymers: Analysis of Aqueous Self-Assembly by Small-Angle Neutron Scattering and Surface Tension Measurements. <i>Macromolecules</i> , 2019, 52, 465-476.	4.8	56
40	Correlating high power conversion efficiency of PTB7:PC <sub>71</sub> BM inverted organic solar cells with nanoscale structures. <i>Nanoscale</i> , 2015, 7, 15576-15583.	5.6	54
41	Rigid Oligomer from Lignin in Designing of Tough, Self-Healing Elastomers. <i>ACS Macro Letters</i> , 2018, 7, 1328-1332.	4.8	54
42	Photo-responsive liquid crystalline epoxy networks with exchangeable disulfide bonds. <i>RSC Advances</i> , 2017, 7, 37248-37254.	3.6	53
43	Solvent quality-induced nucleation and growth of parallelepiped nanorods in dilute poly(3-hexylthiophene) (P3HT) solution and the impact on the crystalline morphology of solution-cast thin film. <i>CrystEngComm</i> , 2013, 15, 1114-1124.	2.6	51
44	X-ray and Neutron Scattering Study of the Formation of Core-Shell-Type Polyoxometalates. <i>Journal of the American Chemical Society</i> , 2016, 138, 2638-2643.	13.7	49
45	Water soluble complexes of chitosan-g- $\alpha$ -MPEG and hyaluronic acid. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 800-812.	4.0	46
46	Impact of Nanoscale Confinement on Crystal Orientation of Poly(ethylene oxide). <i>Macromolecular Rapid Communications</i> , 2010, 31, 356-361.	3.9	46
47	Controlled Shape Memory Behavior of a Smectic Main-Chain Liquid Crystalline Elastomer. <i>Macromolecules</i> , 2015, 48, 2864-2874.	4.8	45
48	An Air-Stable Na <sub>3</sub> SbS <sub>4</sub> Superionic Conductor Prepared by a Rapid and Economic Synthetic Procedure. <i>Angewandte Chemie</i> , 2016, 128, 8693-8697.	2.0	44
49	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. <i>Advanced Materials</i> , 2018, 30, 1705298.	21.0	44
50	Controllable Growth of Perovskite Films by Room-Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14862-14865.	13.8	41
51	Understanding How Processing Additives Tune the Nanoscale Morphology of High Efficiency Organic Photovoltaic Blends: From Casting Solution to Spin-Cast Thin Film. <i>Advanced Functional Materials</i> , 2014, 24, 6647-6657.	14.9	39
52	Thermal deformations of oriented noncrystalline poly (ethylene terephthalate) fibers in the presence of mesophase structure. <i>Polymer</i> , 2005, 46, 939-945.	3.8	38
53	Orientation-induced crystallization of poly(ethylene terephthalate) fibers with controlled microstructure. <i>Polymer</i> , 2008, 49, 4882-4888.	3.8	38
54	Fluorinated bottlebrush polymers based on poly(trifluoroethyl methacrylate): synthesis and characterization. <i>Polymer Chemistry</i> , 2016, 7, 680-688.	3.9	37

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55	Transparent superhydrophilic and superhydrophobic nanoparticle textured coatings: comparative study of anti-soiling performance. <i>Nanoscale Advances</i> , 2019, 1, 1249-1260.	4.6	37
56	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 4936-4945.	6.7	33
57	Reduction-Triggered Self-Assembly of Nanoscale Molybdenum Oxide Molecular Clusters. <i>Journal of the American Chemical Society</i> , 2016, 138, 10623-10629.	13.7	31
58	Probing Flow-Induced Precursor Structures in Blown Polyethylene Films by Synchrotron X-rays during Constrained Melting. <i>Macromolecules</i> , 2005, 38, 5128-5136.	4.8	29
59	Understanding Functionalization of Titanium Carbide (MXene) with Quinones and Their Pseudocapacitance. <i>ACS Applied Energy Materials</i> , 2020, 3, 4127-4133.	5.1	29
60	Sustainable Energy-Storage Materials from Lignin-Graphene Nanocomposite-Derived Porous Carbon Film. <i>Energy Technology</i> , 2017, 5, 1927-1935.	3.8	29
61	Fractionated crystallization of $\alpha$ - and $\beta$ -nucleated polypropylene droplets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 159-171.	2.1	28
62	Confinement of Elastomeric Block Copolymers via Forced Assembly Coextrusion. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4804-4811.	8.0	27
63	High-performance organic field-effect transistors with dielectric and active layers printed sequentially by ultrasonic spraying. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4384.	5.5	27
64	Enhancement in Organic Photovoltaic Efficiency through the Synergistic Interplay of Molecular Donor Hydrogen Bonding and $\pi$ -Stacking. <i>Advanced Functional Materials</i> , 2015, 25, 5166-5177.	14.9	27
65	The electrochemical reactions of SnO <sub>2</sub> with Li and Na: A study using thin films and mesoporous carbons. <i>Journal of Power Sources</i> , 2015, 284, 1-9.	7.8	27
66	Particle size effect in porous film electrodes of ligand-modified graphene for enhanced supercapacitor performance. <i>Carbon</i> , 2017, 119, 296-304.	10.3	27
67	Rheology, crystal structure, and nanomechanical properties in large-scale additive manufacturing of polyphenylene sulfide/carbon fiber composites. <i>Composites Science and Technology</i> , 2018, 168, 263-271.	7.8	27
68	Surprisingly selective sulfate extraction by a simple monofunctional di(imino)guanidinium micelle-forming anion receptor. <i>Chemical Communications</i> , 2018, 54, 10048-10051.	4.1	27
69	Synthesis and catalytic performance of polydopamine supported metal nanoparticles. <i>Scientific Reports</i> , 2020, 10, 10416.	3.3	27
70	Corrosion behaviour of friction-bit-joined and weld-bonded AA7075-T6/galvannealed DP980. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 455-464.	3.1	26
71	Effect of electronic energy dissipation on strain relaxation in irradiated concentrated solid solution alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 107-115.	11.5	25
72	Reciprocated suppression of polymer crystallization toward improved solid polymer electrolytes: Higher ion conductivity and tunable mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1450-1457.	2.1	24

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73	Light-Induced Ferroic Interaction in Hybrid Organic-Inorganic Perovskites. <i>Advanced Optical Materials</i> , 2019, 7, 1901451.	7.3	24
74	Microscopic vertical orientation of nano-interspaced graphene architectures in deposit films as electrodes for enhanced supercapacitor performance. <i>Nano Energy</i> , 2017, 32, 88-95.	16.0	23
75	Controlled Assembly of Lignocellulosic Biomass Components and Properties of Reformed Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8044-8052.	6.7	22
76	A fundamental understanding of whole biomass dissolution in ionic liquid for regeneration of fiber by solution-spinning. <i>Green Chemistry</i> , 2019, 21, 4354-4367.	9.0	22
77	Humidity Exposure Enhances Microscopic Mobility in a Room-Temperature Ionic Liquid in MXene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27561-27566.	3.1	20
78	Selectively Deuterated Poly( $\mu$ -caprolactone)s: Synthesis and Isotope Effects on the Crystal Structures and Properties. <i>Macromolecules</i> , 2018, 51, 9393-9404.	4.8	20
79	Revealing the Structural Stability and Na-Ion Mobility of 3D Superionic Conductor $\text{Na}_3\text{Sb}_4$ at Extremely Low Temperatures. <i>ACS Applied Energy Materials</i> , 2018, 1, 7028-7034.	5.1	20
80	In situ synchrotron SAXS/WAXD studies during melt spinning of modified carbon nanofiber and isotactic polypropylene nanocomposite. <i>Colloid and Polymer Science</i> , 2004, 282, 802-809.	2.1	19
81	Strain-Induced Chemical Gradient and Polarization in Metal Halide Perovskites. <i>Advanced Electronic Materials</i> , 2020, 6, 1901235.	5.1	19
82	Polycarbonate/acrylonitrile-styrene-acrylic elastomer terpolymer blends with enhanced interfacial adhesion and surface gloss. <i>Journal of Applied Polymer Science</i> , 2005, 96, 2097-2104.	2.6	18
83	Correlation between temperature variations of static and dynamic properties in glass-forming liquids. <i>Physical Review E</i> , 2016, 94, 060603.	2.1	18
84	Nanoporous poly(3-hexylthiophene) thin film structures from self-organization of a tunable molecular bottlebrush scaffold. <i>Nanoscale</i> , 2017, 9, 7071-7080.	5.6	18
85	Phase segregation mechanisms of small molecule-polymer blends unraveled by varying polymer chain architecture. <i>SmartMat</i> , 2021, 2, 367-377.	10.7	18
86	Unraveling the Role of Neutral Units for Single-Ion Conducting Polymer Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51525-51534.	8.0	18
87	Peculiarity of Two Thermodynamically-Stable Morphologies and Their Impact on the Efficiency of Small Molecule Bulk Heterojunction Solar Cells. <i>Scientific Reports</i> , 2015, 5, 13407.	3.3	16
88	Quantitative Phase Fraction Detection in Organic Photovoltaic Materials through EELS Imaging. <i>Polymers</i> , 2015, 7, 2446-2460.	4.5	16
89	Translational diffusion of water inside hydrophobic carbon micropores studied by neutron spectroscopy and molecular dynamics simulation. <i>Physical Review E</i> , 2015, 91, 022124.	2.1	16
90	Deuteration as a Means to Tune Crystallinity of Conducting Polymers. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4333-4340.	4.6	16

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91	Efficient Solar-Driven Thermal Distillation Desalination Device by Light Absorptive Carbon Composite Porous Foam. <i>Global Challenges</i> , 2019, 3, 1900003.	3.6	16
92	Ionic Conductivity Enhancement of Polymer Electrolytes by Directed Crystallization. <i>ACS Macro Letters</i> , 2022, 11, 595-602.	4.8	16
93	Flow-induced crystallization precursor structure in high molecular weight isotactic polypropylene (HMW-iPP)/low molecular weight linear low density polyethylene (LMW-LLDPE) binary blends. <i>Polymer</i> , 2013, 54, 1425-1431.	3.8	15
94	Origin of dielectric relaxor behavior in PVDF-based copolymer and terpolymer films. <i>AIP Advances</i> , 2018, 8, .	1.3	15
95	Morphological origin for the stratification of P3HT:PCBM blend film studied by neutron reflectometry. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	14
96	Molecular Design: Network Architecture and Its Impact on the Organization and Mechanics of Peptide-Polyurea Hybrids. <i>Biomacromolecules</i> , 2016, 17, 3931-3939.	5.4	14
97	Synthetic approach to tailored physical associations in peptide-polyurea/polyurethane hybrids. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7607-7617.	2.8	14
98	Styrene-Based Elastomer Composites with Functionalized Graphene Oxide and Silica Nanofiber Fillers: Mechanical and Thermal Conductivity Properties. <i>Nanomaterials</i> , 2020, 10, 1682.	4.1	14
99	Strain in Metal Halide Perovskites: The Critical Role of A-Site Cation. <i>ACS Applied Energy Materials</i> , 2021, 4, 2068-2072.	5.1	14
100	Nanostructure enhanced ionic transport in fullerene reinforced solid polymer electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8266-8275.	2.8	13
101	Cation Molecular Structure Affects Mobility and Transport of Electrolytes in Porous Carbons. <i>Journal of the Electrochemical Society</i> , 2019, 166, A507-A514.	2.9	12
102	Preparation and investigation of Pd doped Cu catalysts for selective hydrogenation of acetylene. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 522-533.	4.4	12
103	Liquid crystalline networks based on photo-initiated thiol-ene click chemistry. <i>Soft Matter</i> , 2020, 16, 1760-1770.	2.7	12
104	Crystallization behavior of isotactic propylene-hexene random copolymer revealed by time-resolved SAXS/WAXD techniques. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 26-32.	2.1	11
105	Insights into the Morphology and Kinetics of Growth of Silver Metal-Organic Nanotubes. <i>Crystal Growth and Design</i> , 2016, 16, 1395-1403.	3.0	11
106	Dissimilar Materials Joining of Carbon Fiber Polymer to Dual Phase 980 by Friction Bit Joining, Adhesive Bonding, and Weldbonding. <i>Metals</i> , 2018, 8, 865.	2.3	11
107	Strain engineering 4H-SiC with ion beams. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	11
108	Amending the Structure of Renewable Carbon from Biorefinery Waste-Streams for Energy Storage Applications. <i>Scientific Reports</i> , 2018, 8, 8355.	3.3	10

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109	An Ionomeric Renewable Thermoplastic from Lignin-Reinforced Rubber. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900059.	3.9	10
110	Effects of graphene surface functionalities towards controlled reinforcement of a lignin based renewable thermoplastic rubber. <i>Composites Science and Technology</i> , 2020, 199, 108352.	7.8	10
111	Continuous-Flow Centrifugal Solid/Liquid Separation for the Recovery of Rare-Earth Elements Containing Particles from Phosphoric Acid Sludge. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 21901-21913.	3.7	10
112	Upcycling of semicrystalline polymers by compatibilization: mechanism and location of compatibilizers. <i>RSC Advances</i> , 2022, 12, 10886-10894.	3.6	10
113	Isotope Effects on the Crystallization Kinetics of Selectively Deuterated Poly( $\epsilon$ -Caprolactone). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 771-779.	2.1	9
114	In situ neutron scattering study of nanoscale phase evolution in PbTe-PbS thermoelectric material. <i>Applied Physics Letters</i> , 2016, 109, 081903.	3.3	8
115	Effect of Hydration on the Molecular Dynamics of Hydroxychloroquine Sulfate. <i>ACS Omega</i> , 2020, 5, 21231-21240.	3.5	8
116	Study of the Segmental Dynamics and Ion Transport of Solid Polymer Electrolytes in the Semi-crystalline State. <i>Frontiers in Chemistry</i> , 2020, 8, 592604.	3.6	8
117	Electroprecipitation Mechanism Enabling Silica and Hardness Removal through Aluminum-Based Electrocoagulation. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1200-1210.	7.6	8
118	Probing the flow-induced shish-kebab structure in entangled polyethylene melts by synchrotron X-ray scattering. <i>Journal of Applied Crystallography</i> , 2006, 40, s48-s51.	4.5	7
119	Secondary-Structure-Mediated Hierarchy and Mechanics in Polyurea/Peptide Hybrids. <i>Biomacromolecules</i> , 2018, 19, 3445-3455.	5.4	7
120	Structural Insights into Low and High Recalcitrance Natural Poplar Variants Using Neutron and X-ray Scattering. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13838-13849.	6.7	7
121	Influence of Heterointerfaces on the Kinetics of Oxygen Surface Exchange on Epitaxial La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> Thin Films. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3778.	2.5	7
122	Synchrotron X-ray scattering studies of the nature of shear-induced shish-kebab structure in polyethylene melt. , 2005, , 114-126.		6
123	Method To Synthesize Micronized Spherical Carbon Particles from Lignin. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9-17.	3.7	6
124	Symmetry degeneration and room temperature ferroelectricity in ion-irradiated SrTiO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 355405.	1.8	6
125	The influence of temperature on the strain-hardening behavior of Fe-22/25/28Mn-3Al-3Si TRIP/TWIP steels. <i>Materialia</i> , 2022, 22, 101425.	2.7	6
126	Diblock copolymers of polystyrene- <i>b</i> -poly(1,3-cyclohexadiene) exhibiting unique three-phase microdomain morphologies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1564-1572.	2.1	5



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127	Enhancing the Efficiency of Organic Photovoltaics by a Photoactive Molecular Mediator. Solar Rrl, 2018, 2, 1700208.	5.8	5
128	Alternating crystalline lamellar structures from thermodynamically miscible poly( $\mu$ -caprolactone) H/D blends. Polymer, 2019, 175, 320-328.	3.8	5
129	Unusual electrical conductivity driven by localized stoichiometry modification at vertical epitaxial interfaces. Materials Horizons, 2020, 7, 3217-3225.	12.2	5
130	Corrosion Prevention of Additively Manufactured Aluminum Packing Devices Developed for Process Intensification of CO <sub>2</sub> Capture by Aqueous Amines. Industrial & Engineering Chemistry Research, 2021, 60, 17036-17044.	3.7	5
131	Reduced Graphene Oxide Aerogels with Functionalization-Mediated Disordered Stacking for Sodium-Ion Batteries. Batteries, 2022, 8, 12.	4.5	5
132	Structure and properties of biaxially-oriented crystalline polymers by solid-state crossrolling. Journal of Applied Polymer Science, 2010, 118, 659-670.	2.6	4
133	Bilayer self-assembly on a hydrophilic, deterministically nanopatterned surface. Nano Research, 2013, 6, 784-794.	10.4	3
134	Nanophase Engineering of Organic Semiconductor-Based Solar Cells. Springer Series in Materials Science, 2016, , 197-228.	0.6	3
135	Side chain dynamics in semiconducting polymer MEH-PPV. Journal of Applied Polymer Science, 2019, 136, 47394.	2.6	3
136	Fractionation of Lignin for Selective Shape Memory Effects at Elevated Temperatures. Materials, 2020, 13, 1940.	2.9	3
137	Quantum Disordered State of Magnetic Charges in Nanoengineered Honeycomb Lattice. Advanced Science, 2021, 8, 2004103.	11.2	3
138	Multiscale Structural Characterization of a Smectic Liquid Crystalline Elastomer upon Mechanical Deformation Using Neutron Scattering. Macromolecules, 2021, 54, 10574-10582.	4.8	3
139	Organohalide Perovskites: Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites (Adv. Tj ETQq1 1 0.784114 rgBTi/Overlock 10 Tf 50 227 To	11.4	3
140	Modular Approach for the Synthesis of Bottlebrush Diblock Copolymers from Poly(Glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 To 488-497.	4.8	1
141	Tailoring compatibilization potential of maleic anhydride-grafted polypropylene by sequential rheochemical processing of polypropylene and polyamide 66 blends. Polymer Engineering and Science, 0, , .	3.1	1
142	Macromol. Rapid Commun. 4/2010. Macromolecular Rapid Communications, 2010, 31, .	3.9	0
143	Recyclable Polymers: A New Class of Renewable Thermoplastics with Extraordinary Performance from Nanostructured Lignin-Elastomers (Adv. Funct. Mater. 16/2016). Advanced Functional Materials, 2016, 26, 2676-2676.	14.9	0
144	Determination of active layer morphology in all-polymer photovoltaic cells. Journal of Applied Crystallography, 2017, 50, 1289-1298.	4.5	0

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145	In Situ X-Ray Studies of Crystallization Kinetics and Ordering in Functional Organic and Hybrid Materials. , 2018, , 33-60.		0
146	Damage-Free Nanoscale Isotopic Analysis of Biological Materials with Vibrational Electron Spectroscopy. Microscopy and Microanalysis, 2019, 25, 1088-1089.	0.4	0