

Jie Lian

List of Publications by Year in descending order

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128
papers

8,845
citations

76326
40
h-index

40979
93
g-index

129
all docs

129
docs citations

129
times ranked

12801
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene segregated on Ni surfaces and transferred to insulators. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	1,116
2	Nuclear waste disposalâ€”pyrochlore ($A_2B_2O_7$): Nuclear waste form for the immobilization of plutonium and minor actinides. <i>Journal of Applied Physics</i> , 2004, 95, 5949-5971.	2.5	951
3	High-rate lithiation-induced reactivation of mesoporous hollow spheres for long-lived lithium-ion batteries. <i>Nature Communications</i> , 2014, 5, 4526.	12.8	586
4	Highly thermally conductive and mechanically strong graphene fibers. <i>Science</i> , 2015, 349, 1083-1087.	12.6	564
5	Ultrahigh volumetric capacitance and cyclic stability of fluorine and nitrogen co-doped carbon microspheres. <i>Nature Communications</i> , 2015, 6, 8503.	12.8	529
6	Largeâ€Area Freestanding Graphene Paper for Superior Thermal Management. <i>Advanced Materials</i> , 2014, 26, 4521-4526.	21.0	386
7	Flexible Pillared Grapheneâ€Paper Electrodes for Highâ€Performance Electrochemical Supercapacitors. <i>Small</i> , 2012, 8, 452-459.	10.0	297
8	Ion-irradiation-induced amorphization of $La_2Zr_2O_7$ pyrochlore. <i>Physical Review B</i> , 2002, 66, .	3.2	246
9	Microfluidics-enabled orientation and microstructure control of macroscopic graphene fibres. <i>Nature Nanotechnology</i> , 2019, 14, 168-175.	31.5	207
10	Porous nickel oxide nano-sheets for high performance pseudocapacitance materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 16581.	6.7	175
11	A comparative review of the aqueous corrosion of glasses, crystalline ceramics, and metals. <i>Npj Materials Degradation</i> , 2018, 2, .	5.8	150
12	Nanoscale Manipulation of Pyrochlore: New Nanocomposite Ionic Conductors. <i>Physical Review Letters</i> , 2001, 87, 145901.	7.8	146
13	Toward ultrafast lithium ion capacitors: A novel atomic layer deposition seeded preparation of $Li_4Ti_5O_{12}$ /graphene anode. <i>Nano Energy</i> , 2017, 36, 46-57.	16.0	138
14	Patterning Metallic Nanostructures by Ion-Beam-Induced Dewetting and Rayleigh Instability. <i>Nano Letters</i> , 2006, 6, 1047-1052.	9.1	133
15	Two-Dimensional van der Waals Epitaxy Kinetics in a Three-Dimensional Perovskite Halide. <i>Crystal Growth and Design</i> , 2015, 15, 4741-4749.	3.0	128
16	Single-ion tracks in<math xmlns:mml="http://www.w3.org/1998/Math/MathML"> display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Gd</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow> Physical Review B, 2009, 79, .	12.0	126
17	Synthesis of ZnO quantum dot/graphene nanocomposites by atomic layer deposition with high lithium storage capacity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7319-7326.	10.3	117
18	Organicâ€Inorganic Heterointerfaces for Ultrasensitive Detection of Ultraviolet Light. <i>Nano Letters</i> , 2015, 15, 5707-5712.	9.1	117

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19	Discovering lead-free perovskite solar materials with a split-anion approach. <i>Nanoscale</i> , 2016, 8, 6284-6289.	5.6	116
20	Pseudocapacitance of Amorphous TiO ₂ Thin Films Anchored to Graphene and Carbon Nanotubes Using Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22497-22508.	3.1	102
21	Enhanced radiation resistance of nanocrystalline pyrochlore Gd ₂ (Ti _{0.65} Zr _{0.35}) ₂ O ₇ . <i>Applied Physics Letters</i> , 2009, 94, .	3.3	98
22	Graphene-based sorbents for iodine-129 capture and sequestration. <i>Carbon</i> , 2015, 90, 1-8.	10.3	91
23	Large-scale graphitic thin films synthesized on Ni and transferred to insulators: Structural and electronic properties. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	83
24	Low-temperature high-pressure preparation of transparent nanocrystalline MgAl ₂ O ₄ ceramics. <i>Applied Physics Letters</i> , 2006, 88, 213120.	3.3	82
25	Temperature-Dependent Morphology Evolution and Surface Plasmon Absorption of Ultrathin Gold Island Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9000-9008.	3.1	82
26	Ion-beam irradiation of Gd ₂ Sn ₂ O ₇ and Gd ₂ Hf ₂ O ₇ pyrochlore: Bond-type effect. <i>Journal of Materials Research</i> , 2004, 19, 1575-1580.	2.6	79
27	Cl-Doped ZnO Nanowire Arrays on 3D Graphene Foam with Highly Efficient Field Emission and Photocatalytic Properties. <i>Small</i> , 2015, 11, 4785-4792.	10.0	71
28	High quality ZnO-TiO ₂ core-shell nanowires for efficient ultraviolet sensing. <i>Applied Surface Science</i> , 2014, 314, 872-876.	6.1	63
29	Self-accelerated corrosion of nuclear waste forms at material interfaces. <i>Nature Materials</i> , 2020, 19, 310-316.	27.5	61
30	Amorphous Ultrathin SnO ₂ Films by Atomic Layer Deposition on Graphene Network as Highly Stable Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27735-27742.	8.0	59
31	Plasma deposition and characterization of acrylic acid thin film on ZnO nanoparticles. <i>Journal of Materials Research</i> , 2002, 17, 2555-2560.	2.6	57
32	Stabilizing an amorphous V ₂ O ₅ /carbon nanotube paper electrode with conformal TiO ₂ coating by atomic layer deposition for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 537-544.	10.3	57
33	Tunable optical properties and stability of lead free all inorganic perovskites (Cs ₂ SnI ₃ Cl _{6-x}). <i>Journal of Materials Chemistry A</i> , 2018, 6, 2577-2584.	10.3	55
34	Unusual rigidity and ideal strength of CrB ₄ and MnB ₄ . <i>Applied Physics Letters</i> , 2012, 100, .	3.3	54
35	Recent Advances in Corrosion Science Applicable To Disposal of High-Level Nuclear Waste. <i>Chemical Reviews</i> , 2021, 121, 12327-12383.	47.7	52
36	Ion beam-induced amorphous-to-tetragonal phase transformation and grain growth of nanocrystalline zirconia. <i>Nanotechnology</i> , 2009, 20, 245303.	2.6	49

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37	Mechanical properties and stabilities of g-ZnS monolayers. RSC Advances, 2015, 5, 11240-11247.	3.6	49
38	Peculiar structure and tensile strength of WB4: nonstoichiometric origin. AIP Advances, 2012, 2, .	1.3	46
39	Bulk Iodoapatite Ceramic Densified by Spark Plasma Sintering with Exceptional Thermal Stability. Journal of the American Ceramic Society, 2014, 97, 2409-2412.	3.8	43
40	In situ TEM of radiation effects in complex ceramics. Microscopy Research and Technique, 2009, 72, 165-181.	2.2	42
41	Tailoring oxidation degrees of graphene oxide by simple chemical reactions. Applied Physics Letters, 2011, 99, .	3.3	42
42	Intrinsic Structural Disorder and Radiation Response of Nanocrystalline Gd ₂ (Ti _{0.65} Zr _{0.35}) ₂ O ₇ Pyrochlore. Journal of Physical Chemistry C, 2010, 114, 11810-11815.	3.1	38
43	Multicomponent pyrochlore solid solutions with uranium incorporation – A new perspective of materials design for nuclear applications. Journal of the European Ceramic Society, 2021, 41, 2870-2882.	5.7	38
44	Heterojunction photodiode fabricated from hydrogen treated ZnO nanowires grown on <i>p</i> -silicon substrate. Applied Physics Letters, 2012, 101, 211103.	3.3	36
45	Energetic stability, structural transition, and thermodynamic properties of ZnSnO ₃ . Applied Physics Letters, 2011, 98, .	3.3	34
46	Nitrogen-doped highly dense but porous carbon microspheres with ultrahigh volumetric capacitance and rate capability for supercapacitors. Journal of Materials Chemistry A, 2019, 7, 476-485.	10.3	33
47	Probing cation antisite disorder in Gd ₂ Ti ₂ O ₇ pyrochlore by site-specific near-edge x-ray-absorption fine structure and x-ray photoelectron spectroscopy. Physical Review B, 2004, 70, .	3.2	32
48	Preparation of YBCO Films on CeO ₂ –Buffered (001) YSZ Substrates by a Non-Fluorine MOD Method. Journal of the American Ceramic Society, 2004, 87, 1669-1676.	3.8	31
49	Propagation of ripples on pyrochlore induced by ion beam bombardment. Physical Review B, 2009, 80, .	3.2	30
50	Liquid-like phase formation in Gd ₂ Zr ₂ O ₇ by extremely ionizing irradiation. Journal of Applied Physics, 2009, 105, .	2.5	30
51	Electrospray deposition of a Co ₃ O ₄ nanoparticles–graphene composite for a binder-free lithium ion battery electrode. RSC Advances, 2014, 4, 1521-1525.	3.6	29
52	A high performance UV-visible dual-band photodetector based on an inorganic Cs ₂ Sn ₆ perovskite/ZnO heterojunction structure. Journal of Materials Chemistry C, 2020, 8, 1819-1825.	5.5	29
53	High pressure phase transitions and compressibilities of Er ₂ Zr ₂ O ₇ and Ho ₂ Zr ₂ O ₇ . Applied Physics Letters, 2008, 92, .	3.3	28
54	Inorganic vacancy-ordered perovskite Cs ₂ SnCl ₆ :Bi/GaN heterojunction photodiode for narrowband, visible-blind UV detection. Applied Physics Letters, 2019, 115, 121106.	3.3	27

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55	Tailoring the radiation tolerance of vanadate-phosphate fluorapatites by chemical composition control. RSC Advances, 2013, 3, 15178.	3.6	26
56	Heterojunction photodiode fabricated from multiwalled carbon nanotube/ZnO nanowire/p-silicon composite structure. Applied Physics Letters, 2013, 102, .	3.3	26
57	Grain growth and pore coarsening in dense nano-crystalline $\text{UO}_{2+\langle i \rangle x}$ fuel pellets. Journal of the American Ceramic Society, 2017, 100, 2651-2658.	3.8	26
58	Improving the Mechanical Properties of Polycarbonate Nanocomposites with Plasma-Modified Carbon Nanofibers. Journal of Macromolecular Science - Physics, 2006, 45, 671-679.	1.0	25
59	Deciphering the degradation mechanism of the lead-free all inorganic perovskite Cs_2SnI_6 . Npj Materials Degradation, 2019, 3, .	5.8	25
60	Plasma Treated Multi-Walled Carbon Nanotubes (MWCNTs) for Epoxy Nanocomposites. Polymers, 2011, 3, 2142-2155.	4.5	24
61	Immobilization of cesium and iodine into $\text{Cs}_3\text{Bi}_2\text{I}_9$ perovskite-silica composites and core-shell waste forms with high waste loadings and chemical durability. Journal of Hazardous Materials, 2021, 401, 123279.	12.4	24
62	In situ Investigation of Water Interaction with Lead-Free All Inorganic Perovskite ($\text{Cs}_{\langle 2 \rangle}\text{SnI}_{\langle x \rangle}\text{Cl}_{\langle 6 \rangle}$). Journal of Physical Chemistry C, 2019, 123, 9575-9581.	3.1	23
63	Ultrasensitive UV Photodetector Based on Interfacial Charge-Controlled Inorganic Perovskite-Polymer Hybrid Structure. ACS Applied Materials & Interfaces, 2020, 12, 43106-43114.	8.0	23
64	Effects of plasma surface modification on interfacial behaviors and mechanical properties of carbon nanotube-Al ₂ O ₃ nanocomposites. Applied Physics Letters, 2007, 91, .	3.3	22
65	Effects of surface modification, carbon nanofiber concentration, and dispersion time on the mechanical properties of carbon-nanofiber-polycarbonate composites. Journal of Applied Polymer Science, 2007, 103, 3792-3797.	2.6	22
66	Mechanism of iodine release from iodoapatite in aqueous solution. RSC Advances, 2018, 8, 3951-3957.	3.6	22
67	Copper-Coated Reduced Graphene Oxide Fiber Mesh-Polymer Composite Films for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2020, 3, 5565-5574.	5.0	22
68	Dense nanocrystalline $\text{UO}_{2+\langle i \rangle x}$ fuel pellets synthesized by high pressure spark plasma sintering. Journal of the American Ceramic Society, 2018, 101, 1105-1115.	3.8	21
69	The grain-size effect on thermal conductivity of uranium dioxide. Journal of Applied Physics, 2019, 126, .	2.5	20
70	Facile low temperature solid state synthesis of iodoapatite by high-energy ball milling. RSC Advances, 2014, 4, 38718-38725.	3.6	19
71	Thermally-Conductive and Mechanically-Robust Graphene Nanoplatelet Reinforced UO ₂ Composite Nuclear Fuels. Scientific Reports, 2018, 8, 2987.	3.3	19
72	Microstructural evolution and nanocrystal formation in Pb+-implanted ZrSiO ₄ single crystals. Journal of Applied Physics, 2003, 94, 5695-5703.	2.5	18

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73	Ultraviolet Photodetector Fabricated From Multiwalled Carbon Nanotubes/Zinc-Oxide Nanowires/p-GaN Composite Structure. <i>IEEE Electron Device Letters</i> , 2013, 34, 1169-1171.	3.9	18
74	Pressure effect on stabilities of self-Interstitials in HCP-Zirconium. <i>Scientific Reports</i> , 2014, 4, 5735.	3.3	18
75	Conjugation of quantum dots and Fe ₃ O ₄ on carbon nanotubes for medical diagnosis and treatment. <i>Applied Physics Letters</i> , 2009, 95, 223702.	3.3	17
76	Dense Iodoapatite Ceramics Consolidated by Low-Temperature Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3733-3739.	3.8	17
77	Chemical Durability and Dissolution Kinetics of Iodoapatite in Aqueous Solutions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 452-462.	2.7	16
78	Radiation Stability of Spark-Plasma-Sintered Lead Vanadate Iodoapatite. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3361-3366.	3.8	15
79	The thermal stability and consolidation of perovskite variant Cs ₂ SnCl ₆ using spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2060-2065.	3.8	15
80	Effect of solution chemistry on the iodine release from iodoapatite in aqueous environments. <i>Journal of Nuclear Materials</i> , 2019, 525, 161-170.	2.7	14
81	Chemical durability and surface alteration of lanthanide zirconates (A ₂ Zr ₂ O ₇ : A = La-Yb). <i>Journal of the European Ceramic Society</i> , 2021, 41, 6018-6028.	5.7	14
82	Kinetically Controlled Growth of Sub-millimeter 2D Cs ₂ SnI ₆ Nanosheets at the Liquid-Liquid Interface. <i>Small</i> , 2021, 17, e2006279.	10.0	14
83	Bulk Nanostructured Cu with High Strength and Good Ductility. <i>Advanced Engineering Materials</i> , 2008, 10, 41-45.	3.5	13
84	Phase transition and abnormal compressibility of lanthanide silicate with the apatite structure. <i>Physical Review B</i> , 2012, 85, .	3.2	13
85	A systematic study of lanthanide titanates (A ₂ Ti ₂ O ₇) chemical durability: corrosion mechanisms and control parameters. <i>Corrosion Science</i> , 2021, 185, 109394.	6.6	13
86	Cs ₃ Bi ₂ I ₉ -hydroxyapatite composite waste forms for cesium and iodine immobilization. <i>Journal of Advanced Ceramics</i> , 2022, 11, 712-728.	17.4	13
87	Microstructure control of macroscopic graphene paper by electrospray deposition and its effect on thermal and electrical conductivities. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	12
88	Ion Beam-Induced Amorphization of the Pyrochlore Structure-Type: A Review. <i>Materials Research Society Symposia Proceedings</i> , 2003, 792, 190.	0.1	11
89	Radiation Effects in Murataite Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2003, 807, 48.	0.1	11
90	Spark plasma sintering-densified vanadinite apatite-based chlorine waste forms with high thermal stability and chlorine confinement. <i>Journal of Nuclear Materials</i> , 2020, 528, 151857.	2.7	10

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91	Oxygen point defect accumulation in single-phase U_{1-x}O_x . <i>Physical Review Materials</i> , 2019, 3, .	2.4	10
92	Consolidation of commercial-size UO_2 fuel pellets using spark plasma sintering and microstructure/microchemical analysis. <i>MRS Communications</i> , 2018, 8, 979-987.	1.8	8
93	Corrosion interactions between stainless steel and lead vanado-iodoapatite nuclear waste form part I. <i>Npj Materials Degradation</i> , 2020, 4, .	5.8	8
94	Reply to: How much does corrosion of nuclear waste matrices matter. <i>Nature Materials</i> , 2020, 19, 962-963.	27.5	7
95	Corrosion interactions between stainless steel and lead vanado-iodoapatite nuclear waste form part II. <i>Npj Materials Degradation</i> , 2020, 4, .	5.8	7
96	Microstructure Dictating Performance: Assembly of Graphene-Based Macroscopic Structures. <i>Accounts of Materials Research</i> , 2021, 2, 7-20.	11.7	7
97	Morphological instability of Cu nanolines induced by Ga+ ion bombardment: In situ scanning electron microscopy and theoretical model. <i>Journal of Applied Physics</i> , 2008, 103, 074306.	2.5	6
98	Horizontally aligned Cu ₅ Si polycrystalline nanorods on Si. <i>Applied Physics Letters</i> , 2008, 92, 253113.	3.3	6
99	WastePD, an innovative center on materials degradation. <i>Npj Materials Degradation</i> , 2017, 1, .	5.8	6
100	Heavy Ion Irradiation of Zirconate Pyrochlores. <i>Materials Research Society Symposia Proceedings</i> , 2002, 713, 1.	0.1	5
101	Ion-Induced Amorphization of Murataite. <i>Materials Research Society Symposia Proceedings</i> , 2002, 713, 1.	0.1	4
102	Microstructures of epitaxial YBa ₂ Cu ₃ O _{7-δ} thick films grown by photoassisted metal-organic chemical vapor deposition. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 3839-3844.	1.7	4
103	First-Principles Investigation of Structural, Elastic and Electronic Properties of Lanthanide Titanate Oxides Ln ₂ TiO ₅ . <i>Materials Research Society Symposia Proceedings</i> , 2011, 1298, 85.	0.1	4
104	Ultrathin gold island films for time-dependent temperature sensing. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	4
105	Chemical durability and degradation mechanisms of CsPbI ₃ as a potential host phase for cesium and iodine sequestration. <i>RSC Advances</i> , 2022, 12, 12242-12252.	3.6	4
106	Heavy Ion Irradiation of Brannerite-type Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2000, 650, 3171.	0.1	3
107	Study of dielectric and piezoelectric properties of Pb(Ni,Nb)O ₃ -Pb(Zr,Ti)O ₃ ceramics using mechanically activated powder. <i>Journal of Materials Science</i> , 2007, 42, 6246-6251.	3.7	3
108	Irradiation effects of synthetic coffinite (USiO_4) studied by in-situ TEM. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1193, 63.	0.1	3

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109	Ultraviolet Photodetector Fabricated from 3D WO ₃ Nanowires/Reduced Graphene Oxide Composite Material. Materials Research Society Symposia Proceedings, 2014, 1659, 193-198.	0.1	3
110	Degradation mechanism of lead-vanado-iodoapatite in NaCl solution. Corrosion Science, 2020, 172, 108720.	6.6	3
111	Perovskite-Derived Cs ₂ SnCl ₆ Silica Composites as Advanced Waste Forms for Chloride Salt Wastes. Environmental Science & Technology, 2021, 55, 7605-7614.	10.0	3
112	Joining of Molten Salt Reaction Titanium-metallized Si ₃ N ₄ to Si ₃ N ₄ . Journal of Materials Science Letters, 1998, 17, 2113-2115.	0.5	2
113	Structural Alterations in Titanate Pyrochlores Induced by Ion Irradiation: X-ray Photoelectron Spectrum Interpretation. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	2
114	Thermochemical Investigations of Zirconolite, Pyrochlore and Brannerite: Candidate Materials for the Immobilization of Plutonium. Materials Research Society Symposia Proceedings, 2003, 807, 337.	0.1	2
115	Ion Beam Irradiation-induced Amorphization in Nano-sized K _x LnyTa ₂ O _{7-v} Tantalate Pyrochlore. Materials Research Society Symposia Proceedings, 2011, 1298, 147.	0.1	2
116	Enhanced crevice corrosion of stainless steel 316 by degradation of Cr-containing hollandite crevice former. Corrosion Science, 2022, 205, 110462.	6.6	2
117	Deposition of Polymer Thin Films on ZnO Nanoparticles by a Plasma Treatment. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	1
118	Coating of Ultrathin Polymer Films on Carbon Nanotubes by a Plasma Treatment. Materials Research Society Symposia Proceedings, 2002, 740, 1.	0.1	1
119	In Situ TEM Study of Order-Disorder Transition in Murataite Ceramics. Microscopy and Microanalysis, 2002, 8, 1424-1425.	0.4	1
120	A first-principles study of the avalanche pressure of alpha zirconium. RSC Advances, 2016, 6, 72551-72558.	3.6	1
121	Nanoscale TiO ₂ coating improves water stability of Cs ₂ SnCl ₆ . MRS Communications, 2020, 10, 687-694.	1.8	1
122	Oxidation kinetics of SPS-densified U ₃ Si ₂ fuelsâ€”Microstructure impact. Journal of Applied Physics, 2022, 131, .	2.5	1
123	Large-Area Uniaxial-Oriented Growth of Free-Standing Thin Films at the Liquidâ€”Air Interface with Millimeter-Sized Grains. ACS Nano, 2022, 16, 11802-11814.	14.6	1
124	Tem Study of Nano-Crystals in Strontium Ion-Implanted Cubic Zirconia. Microscopy and Microanalysis, 2001, 7, 406-407.	0.4	0
125	Direct Observation of Single Displacement Cascade in Pyrochlore by Tv-Rate In-Situ TEM and Ex-Situ HRTEM. Microscopy and Microanalysis, 2001, 7, 408-409.	0.4	0
126	Nanoscale Structural Manipulation of Ion Irradiated Pyrochlore. Microscopy and Microanalysis, 2002, 8, 1136-1137.	0.4	0

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127	Magnetic Alignment of Carbon Nanofibers in Polymer Composites. Materials Research Society Symposia Proceedings, 2004, 858, 248.	0.1	0
128	Long-term interactive corrosion between International Simple Glass and stainless steel. Npj Materials Degradation, 2022, 6, .	5.8	0