Turab Lookman

List of Publications by Year
in descending order

140 papers	6,792 citations	76326 40 h-index	66911 78 g-index
141 all docs	141 docs citations	141 times ranked	5547 citing authors

#	Article	IF	Citations
1	Temperature-field history dependence of the elastocaloric effect for a strain glass alloy. Journal of Materials Science and Technology, 2022, 103, 8-14.	10.7	7
2	Automated pipeline for superalloy data by text mining. Npj Computational Materials, 2022, 8, .	8.7	25
3	Effects of thermal and electrical hysteresis on phase transitions and electrocaloric effect in ferroelectrics: A computational study. Acta Materialia, 2022, 228, 117784.	7.9	0
4	Low-fatigue and large room-temperature elastocaloric effect in a bulk Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si16.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>49.2</mml:mn></mml:mrow></mml:msub></mml:math>Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si17.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>40.8</mml:mn></mml:mrow></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.svg"><mml:msub><mml:mrow /><mml:	7.9	17
5	Accelerated discovery of high-performance piezocatalyst in BaTiO3-based ceramics via machine learning. Nano Energy, 2022, 97, 107218.	16.0	23
6	Machine learning combined with feature engineering to search for BaTiO3 based ceramics with large piezoelectric constant. Journal of Alloys and Compounds, 2022, 908, 164468.	5.5	14
7	Symbolic regression in materials science via dimension-synchronous-computation. Journal of Materials Science and Technology, 2022, 122, 77-83.	10.7	12
8	Molecular dynamics simulations of ultralow hysteretic behavior in super-elastic shape memory alloys. Acta Materialia, 2022, 232, 117973.	7.9	4
9	Electric hysteresis and validity of indirect electrocaloric characterization in antiferroelectric ceramics. Scripta Materialia, 2022, 216, 114763.	5.2	5
10	Evolution analysis of Î³' precipitate coarsening in Co-based superalloys using kinetic theory and machine learning. Acta Materialia, 2022, 235, 118101.	7.9	17
11	Determining Multiâ€Component Phase Diagrams with Desired Characteristics Using Active Learning. Advanced Science, 2021, 8, 2003165.	11.2	23
12	Efficient sampling for decision making in materials discovery*. Chinese Physics B, 2021, 30, 050705.	1.4	4
13	Enhanced Energy-Storage Density by Reversible Domain Switching in Acceptor-Doped Ferroelectrics. Physical Review Applied, 2021, 15, .	3.8	6
14	Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. Nature Communications, 2021, 12, 2841.	12.8	19
15	Anomalous dislocation core structure in shock compressed bcc high-entropy alloys. Acta Materialia, 2021, 209, 116801.	7.9	42
16	Modeling solid solution strengthening in high entropy alloys using machine learning. Acta Materialia, 2021, 212, 116917.	7.9	87
17	Learning from superelasticity data to search for Ti-Ni alloys with large elastocaloric effect. Acta Materialia, 2021, 218, 117200.	7.9	20
18	Efficient estimation of material property curves and surfaces via active learning. Physical Review Materials, 2021, 5, .	2.4	17

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19	Machine-Learning-Enabled Prediction of Adiabatic Temperature Change in Lead-Free BaTiO₃-Based Electrocaloric Ceramics. ACS Applied Materials & Interfaces, 2021, 13, 53475-53484.	8.0	5
20	Phase prediction in high entropy alloys with a rational selection of materials descriptors and machine learning models. Acta Materialia, 2020, 185, 528-539.	7.9	206
21	Knowledge-Based Descriptor for the Compositional Dependence of the Phase Transition in BaTiO₃-Based Ferroelectrics. ACS Applied Materials & Interfaces, 2020, 12, 44970-44980.	8.0	7
22	Bayesian Global Optimization applied to the design of shape-memory alloys. , 2020, , 519-537.		3
23	Data-Based Methods for Materials Design and Discovery: Basic Ideas and General Methods. Synthesis Lectures on Materials and Optics, 2020, 1, 1-188.	0.2	6
24	Role of uncertainty estimation in accelerating materials development via active learning. Journal of Applied Physics, 2020, 128, .	2.5	24
25	Machine learning assisted multi-objective optimization for materials processing parameters: A case study in Mg alloy. Journal of Alloys and Compounds, 2020, 844, 156159.	5.5	41
26	Enhanced magnetocaloric performance in manganite bilayers. Journal of Applied Physics, 2020, 127, .	2.5	7
27	Accelerated Search for BaTiO₃â€Based Ceramics with Large Energy Storage at Low Fields Using Machine Learning and Experimental Design. Advanced Science, 2019, 6, 1901395.	11.2	44
28	Machine-Learning-Based Predictive Modeling of Glass Transition Temperatures: A Case of Polyhydroxyalkanoate Homopolymers and Copolymers. Journal of Chemical Information and Modeling, 2019, 59, 5013-5025.	5.4	85
29	Doping effects of point defects in shape memory alloys. Acta Materialia, 2019, 176, 177-188.	7.9	13
30	Machine learning assisted design of high entropy alloys with desired property. Acta Materialia, 2019, 170, 109-117.	7.9	445
31	Effects of Long- and Short-Range Ferroelectric Order on the Electrocaloric Effect in Relaxor Ferroelectric Ceramics. Physical Review Applied, 2019, 11, .	3.8	57
32	Active learning in materials science with emphasis on adaptive sampling using uncertainties for targeted design. Npj Computational Materials, 2019, 5, .	8.7	315
33	The Search for BaTiO₃-Based Piezoelectrics With Large Piezoelectric Coefficient Using Machine Learning. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 394-401.	3.0	23
34	Critical diffusivity in the reversibilityâ€"irreversibility transition of amorphous solids under oscillatory shear. Journal of Physics Condensed Matter, 2019, 31, 045101.	1.8	10
35	hcp â†' Ï‰ phase transition mechanisms in shocked zirconium: A machine learning based atomic simulation study. Acta Materialia, 2019, 162, 126-135.	7.9	17
36	Multi-objective Optimization for Materials Discovery via Adaptive Design. Scientific Reports, 2018, 8, 3738.	3.3	94

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37	First-principles study of theÎ±-Ï‰phase transformation in Ti and Zr coupled to slip modes. Journal of Applied Physics, 2018, 123, 045903.	2.5	6
38	Influence of Finite Size on the Electrocaloric Response in PbTiO₃ Ceramics Near Room Temperature Using Landau Theory. Physica Status Solidi (B): Basic Research, 2018, 255, 1700469.	1.5	5
39	Accelerated Discovery of Large Electrostrains in BaTiO₃â€Based Piezoelectrics Using Active Learning. Advanced Materials, 2018, 30, 1702884.	21.0	254
40	Experimental search for high-temperature ferroelectric perovskites guided by two-step machine learning. Nature Communications, 2018, 9, 1668.	12.8	189
41	Origin of large electrostrain in Sn4+ doped Ba(Zr0.2Ti0.8)O3-x(Ba0.7Ca0.3)TiO3 ceramics. Acta Materialia, 2018, 157, 155-164.	7.9	22
42	Predictions of new <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="italic">AB</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> perovskite compounds by combining machine learning and density functional theory. Physical Review Materials, 2018, 2, .	2.4	127
43	An informatics approach to transformation temperatures of NiTi-based shape memory alloys. Acta Materialia, 2017, 125, 532-541.	7.9	168
44	Optimal experimental design for materials discovery. Computational Materials Science, 2017, 129, 311-322.	3.0	54
45	Learning from data to design functional materials without inversion symmetry. Nature Communications, 2017, 8, 14282.	12.8	76
46	Role of cadmium on the phase transitions and electrical properties of BaTiO3 ceramics. Ceramics International, 2017, 43, 1114-1120.	4.8	5
47	Ferroic glasses. Npj Computational Materials, 2017, 3, .	8.7	27
48	Enhanced Energy Storage with Polar Vortices in Ferroelectric Nanocomposites. Physical Review Applied, 2017, 8, .	3.8	20
49	Material descriptors for morphotropic phase boundary curvature in lead-free piezoelectrics. Applied Physics Letters, 2017, 111, 032907.	3.3	14
50	Ferroelectric, elastic, piezoelectric, and dielectric properties of Ba(Ti0.7Zr0.3)O3-<i>x</i>(Ba0.82Ca0.18)TiO3 Pb-free ceramics. Journal of Applied Physics, 2017, 122, .	2.5	16
51	The Irreversibility Transition in Amorphous Solids Under Periodic Shear. Understanding Complex Systems, 2017, , 227-259.	0.6	3
52	Statistical inference and adaptive design for materials discovery. Current Opinion in Solid State and Materials Science, 2017, 21, 121-128.	11.5	85
53	Perspective: Codesign for materials science: An optimal learning approach. APL Materials, 2016, 4, 053501.	5.1	21
54	Optimisation of GaN LEDs and the reduction of efficiency droop using active machine learning. Scientific Reports, 2016, 6, 24862.	3.3	43

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55	Effect of misfit strain on ferroelectric domain formation at the morphotropic phase boundary. Physical Review B, 2016, 94, .	3.2	7
56	Sandwichlike strain glass phase diagram of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ti</mml:mi><mml:mn>49</mml:mn></mml: Physical Review B, 2016, 94, .	3.2	11
57	Design of High Temperature Ti-Pd-Cr Shape Memory Alloys with Small Thermal Hysteresis. Scientific Reports, 2016, 6, 28244.	3.3	27
58	Metastable phase transformation and hcp-<i> Ï‰ </i> transformation pathways in Ti and Zr under high hydrostatic pressures. Applied Physics Letters, 2016, 109, .	3.3	16
59	Adaptive Strategies for Materials Design using Uncertainties. Scientific Reports, 2016, 6, 19660.	3.3	172
60	Multi-objective optimization techniques to design the Pareto front of organic dielectric polymers. Computational Materials Science, 2016, 125, 92-99.	3.0	31
61	Structureâ€"Curie temperature relationships in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m ferroelectric perovskites: Anomalous behavior of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:mi>Ba</mml:mi><mml:mo>,</mml:mo><mml:mi>C DFT, statistical inference, and experiments. Physical Review B, 2016, 93, .	3.2	39
62	Accelerated search for BaTiO ₃ -based piezoelectrics with vertical morphotropic phase boundary using Bayesian learning. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13301-13306.	7.1	114
63	Accelerated search for materials with targeted properties by adaptive design. Nature Communications, 2016, 7, 11241.	12.8	504
64	Machine Learning Strategy for Accelerated Design of Polymer Dielectrics. Scientific Reports, 2016, 6, 20952.	3.3	279
65	Twin boundary activated Î±Ââ†'Ï‰ phase transformation in titanium under shock compression. Acta Materialia, 2016, 115, 1-9.	7.9	28
66	Long-time behavior of the Ï‰â†'Î± transition in shocked zirconium: Interplay of nucleation and plastic deformation. Acta Materialia, 2016, 108, 138-142.	7.9	5
67	Origin of low thermal hysteresis in shape memory alloy ultrathin films. Acta Materialia, 2016, 103, 407-415.	7.9	13
68	Alpha â€" omega and omega â€" alpha phase transformations in zirconium under hydrostatic pressure: A 3D mesoscale study. Acta Materialia, 2016, 102, 97-107.	7.9	19
69	Physics-based statistical learning approach to mesoscopic model selection. Physical Review E, 2015, 92, 053301.	2.1	6
70	Reversibility and criticality in amorphous solids. Nature Communications, 2015, 6, 8805.	12.8	127
71	Materials Prediction via Classification Learning. Scientific Reports, 2015, 5, 13285.	3.3	68
72	Ambient-temperature high damping capacity in TiPd-based martensitic alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 632, 110-119.	5.6	12

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73	Phase-field modeling of the beta to omega phase transformation in Zrâ€“Nb alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 634, 46-54.	5.6	19
74	Phase transitions and phase diagram of Ba(Zr_{0.2}Ti_{0.8})O₃-<i>x</i>(Ba_{0.7}Ca_{0.3})TiO₃ Pb-free system by anelastic measurement. Journal of Applied Physics, 2015, 117, 124107.	2.5	35
75	Uniaxial stress-driven coupled grain boundary motion in hexagonal close-packed metals: A molecular dynamics study. Acta Materialia, 2015, 82, 295-303.	7.9	28
76	Modelling magnetostructural textures in magnetic shapeâ€memory alloys: Strain and magnetic glass behaviour. Physica Status Solidi (B): Basic Research, 2014, 251, 2080-2087.	1.5	6
77	High temperature strain glass transition in defect doped Tiâ€“Pd martensitic alloys. Physica Status Solidi (B): Basic Research, 2014, 251, 2027-2033.	1.5	23
78	Phase transformations in Titanium: Anisotropic deformation of Ï‰ phase. Journal of Physics: Conference Series, 2014, 500, 112042.	0.4	4
79	Martensite formation in stainless steels under transient loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 608, 101-105.	5.6	6
80	Reverse phase transformation of martensite to austenite in stainless steels: a 3D phase-field study. Journal of Materials Science, 2014, 49, 3642-3651.	3.7	28
81	Anisotropic shock response of titanium: Reorientation and transformation mechanisms. Acta Materialia, 2014, 65, 10-18.	7.9	57
82	The kinetics of the Ï‰ to Î± phase transformation in Zr, Ti: Analysis of data from shock-recovered samples and atomistic simulations. Acta Materialia, 2014, 77, 191-199.	7.9	40
83	Direct observation of hierarchical nucleation of martensite and size-dependent superelasticity in shape memory alloys. Nanoscale, 2014, 6, 2067.	5.6	16
84	Electronic structure and biaxial strain in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">RbHgF</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>perovskite and hybrid improper ferroelectricity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:mtext>Na</mml:mtext><mml:mo>,</mml:mo><mn mathvariant="normal">Hg</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvaria	3.2	14
85	Collective nature of plasticity in mediating phase transformation under shock compression. Physical Review B, 2014, 89, .	3.2	40
86	Asymptotic analysis of hierarchical martensitic microstructure. Journal of the Mechanics and Physics of Solids, 2014, 72, 174-192.	4.8	10
87	On glassy behavior in ferroics. Physica Status Solidi (B): Basic Research, 2014, 251, 2003-2009.	1.5	4
88	Diffuse scattering as an indicator for martensitic variant selection. Acta Materialia, 2014, 66, 69-78.	7.9	9
89	Spatial adaptive sampling in multiscale simulation. Computer Physics Communications, 2014, 185, 1857-1864.	7.5	23
90	Adaptive ferroelectric state at morphotropic phase boundary: Coexisting tetragonal and rhombohedral phases. Acta Materialia, 2014, 71, 176-184.	7.9	77

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91	The simultaneous occurrence of martensitic transformation and reversion of martensite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 594, 48-51.	5.6	16
92	Heterogeneities and strain glass behavior: Role of nanoscale precipitates in low-temperature-aged Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>48.7</mml:mn></mml:mrow></mml:msub></mml:math>Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>51.3</mml:mn></mml:mrow></mml:msub></mml:math>alloys. Physical Review	3.2	71
93	Nonhysteretic Superelasticity of Shape Memory Alloys at the Nanoscale. Physical Review Letters, 2013, 111, 145701.	7.8	48
94	Modeling the paraelectric aging effect in the acceptor doped perovskite ferroelectrics: role of oxygen vacancy. Journal of Physics Condensed Matter, 2013, 25, 435901.	1.8	10
95	Strain-induced martensitic transformation in stainless steels: A three-dimensional phase-field study. Acta Materialia, 2013, 61, 6972-6982.	7.9	49
96	Heterogeneity and phase transformation in materials: Energy minimization, iterative methods and geometric nonlinearity. Acta Materialia, 2013, 61, 5311-5340.	7.9	13
97	Onset of irreversibility and chaos in amorphous solids under periodic shear. Physical Review E, 2013, 88, 062401.	2.1	138
98	Quasi-one-dimensional thermal breakage. Physical Review E, 2013, 88, 042409.	2.1	0
99	Aging and deaging effects in shape memory alloys. Physical Review B, 2012, 86, .	3.2	16
100	Athermal Martensites, Temperature-Time-Transformation Diagrams and Thermal Hysteresis: Monte Carlo Simulations of Strain Pseudospins. Solid State Phenomena, 2012, 185, 31-33.	0.3	1
101	Phase diagram of ferroelastic systems in the presence of disorder: Analytical model and experimental verification. Physical Review B, 2012, 86, .	3.2	26
102	Effects of tricritical points and morphotropic phase boundaries on the piezoelectric properties of ferroelectrics. Physical Review B, 2011, 83, .	3.2	48
103	Elastic, piezoelectric, and dielectric properties of Ba(Zr_{0.2}Ti_{0.8})O₃-50(Ba_{0.7}Ca_{0.3})TiO₃ Pb-free ceramic at the morphotropic phase boundary. Journal of Applied Physics, 2011, 109, 054110.	2.5	242
104	Magnetic symmetry of low-dimensional multiferroics and ferroelastics. Phase Transitions, 2011, 84, 421-437.	1.3	13
105	Martensite aging effects on the dynamic properties of Auâ€“Cd shape memory alloys: Characteristics and modeling. Acta Materialia, 2011, 59, 4999-5011.	7.9	16
106	In situobservation of thermally activated domain memory and polarization memory in an aged K+-doped (Ba, Sr)TiO3single crystal. Journal of Physics Condensed Matter, 2011, 23, 275902.	1.8	6
107	A quantitative model for stabilization effect induced by ferroelectric aging. Journal of Applied Physics, 2011, 109, 124103.	2.5	7
108	Ab initio calculations of the uraniumâ€“hydrogen system: Thermodynamics, hydrogen saturation of Î±-U and phase-transformation to UH3. Acta Materialia, 2010, 58, 1045-1055.	7.9	60

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109	Thermodynamic theory of dislocation-mediated plasticity. Acta Materialia, 2010, 58, 3718-3732.	7.9	139
110	Strain glass in doped Ti50(Ni50â˘’xDx) (D=Co, Cr, Mn) alloys: Implication for the generality of strain glass in defect-containing ferroelastic systems. Acta Materialia, 2010, 58, 5433-5442.	7.9	120
111	Superelasticity in bcc nanowires by a reversible twinning mechanism. Physical Review B, 2010, 82, .	3.2	99
112	Evidence for short-time limit of martensite deaging in shape-memory alloys: Experiment and atomistic simulation. Applied Physics Letters, 2010, 97, 171902.	3.3	4
113	Microstructure from ferroelastic transitions using strain pseudospin clock models in two and three dimensions: A local mean-field analysis. Physical Review B, 2010, 82, .	3.2	21
114	Inverse martensitic transformation in Zr nanowires. Physical Review B, 2010, 81, .	3.2	28
115	Origin of ultrafast annihilation effect of martensite aging: Atomistic simulations. Physical Review B, 2010, 82, .	3.2	4
116	Thermally Induced Local Failures in Quasi-One-Dimensional Systems: Collapse in Carbon Nanotubes, Necking in Nanowires, and Opening of Bubbles in DNA. Physical Review Letters, 2010, 104, 025503.	7.8	10
117	Effects of disorder in ferroelastics: A spin model for strain glass. Physical Review B, 2010, 81, .	3.2	41
118	Effects of criticality and disorder on piezoelectric properties of ferroelectrics. Journal of Physics Condensed Matter, 2010, 22, 345902.	1.8	27
119	Microscopic mechanism of martensitic stabilization in shape-memory alloys: Atomic-level processes. Physical Review B, 2010, 81, .	3.2	24
120	Control of Ferroelectric Aging by Manipulating Point Defects. Ferroelectrics, 2010, 401, 45-50.	0.6	3
121	Aging Effect in Acceptor-Donor Co-Doped Ferroelectrics. Ferroelectrics, 2010, 404, 141-146.	0.6	4
122	Aging effect in paraelectric state of ferroelectrics: Implication for a microscopic explanation of ferroelectric deaging. Applied Physics Letters, 2009, 94, .	3.3	31
123	High temperature strain glass in Ti50(Pd50â˘’xCrx) alloy and the associated shape memory effect and superelasticity. Applied Physics Letters, 2009, 95, .	3.3	70
124	Thermal Stability of Strained Nanowires. Physical Review Letters, 2009, 102, 245504.	7.8	10
125	Nanoscale Heterogeneity in Functional Materials. MRS Bulletin, 2009, 34, 822-831.	3.5	14
126	Non-equilibrium particle-field simulations of polymer-nanocomposite dynamics. Chemical Engineering Science, 2009, 64, 4754-4757.	3.8	10

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127	Energy minimization related to the nonlinear SchrÃ¶dinger equation. Journal of Computational Physics, 2009, 228, 2572-2577.	3.8	17
128	Interfaces in ferroelastics: Fringing fields, microstructure, and size and shape effects. Physical Review B, 2009, 79, .	3.2	30
129	Numerical method for hydrodynamic transport of inhomogeneous polymer melts. Journal of Computational Physics, 2007, 224, 681-698.	3.8	14
130	Dynamic strain loading of cubic to tetragonal martensites. Acta Materialia, 2006, 54, 2109-2120.	7.9	55
131	Hydrodynamic Self-Consistent Field Theory for Inhomogeneous Polymer Melts. Physical Review Letters, 2006, 97, 114501.	7.8	21
132	Dynamical heterogeneity in the Ising spin glass. Physical Review E, 1998, 57, 7350-7353.	2.1	31
133	Effects of Hydrodynamics on Phase Transition Kinetics in Two-Dimensional Binary Fluids. Physical Review Letters, 1995, 74, 3852-3855.	7.8	53
134	Surface phase transitions in polymer systems. Reviews of Modern Physics, 1993, 65, 87-113.	45.6	179
135	STATISTICAL ERROR IN A CHORD ESTIMATOR OF CORRELATION DIMENSION: THE â€œRULE OF FIVEâ€. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1993, 03, 765-771.	1.7	35
136	Crossover behavior for self-avoiding walks interacting with a surface. Physical Review A, 1990, 42, 4591-4600.	2.5	23
137	The climate attractor over short timescales. Nature, 1987, 326, 64-66.	27.8	96
138	Spin Models for Ferroelastics: towards a Spin Glass Description of Strain Glass. Solid State Phenomena, 0, 172-174, 1078-1083.	0.3	2
139	Influence of Dislocations on the Spatial Variation of Microstructure in Martensites. Key Engineering Materials, 0, 465, 77-80.	0.4	0
140	Disentangling the effect of doping chemistry on the energy storage property of barium titanate ferroelectrics via data science tools. Journal of Materials Chemistry C, 0, , .	5.5	1