

# Turab Lookman

## List of Publications by Year in descending order

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140  
papers

6,792  
citations

76326

40  
h-index

66911

78  
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141  
all docs

141  
docs citations

141  
times ranked

5547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated search for materials with targeted properties by adaptive design. Nature Communications, 2016, 7, 11241.	12.8	504
2	Machine learning assisted design of high entropy alloys with desired property. Acta Materialia, 2019, 170, 109-117.	7.9	445
3	Active learning in materials science with emphasis on adaptive sampling using uncertainties for targeted design. Npj Computational Materials, 2019, 5, .	8.7	315
4	Machine Learning Strategy for Accelerated Design of Polymer Dielectrics. Scientific Reports, 2016, 6, 20952.	3.3	279
5	Accelerated Discovery of Large Electrostrains in BaTiO <sub>3</sub> -Based Piezoelectrics Using Active Learning. Advanced Materials, 2018, 30, 1702884.	21.0	254
6	Elastic, piezoelectric, and dielectric properties of Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -50(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> Pb-free ceramic at the morphotropic phase boundary. Journal of Applied Physics, 2011, 109, 054110.	12.8	242
7	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
8	Experimental search for high-temperature ferroelectric perovskites guided by two-step machine learning. Nature Communications, 2018, 9, 1668.	12.8	189
9	Surface phase transitions in polymer systems. Reviews of Modern Physics, 1993, 65, 87-113.	45.6	179
10	Adaptive Strategies for Materials Design using Uncertainties. Scientific Reports, 2016, 6, 19660.	3.3	172
11	An informatics approach to transformation temperatures of NiTi-based shape memory alloys. Acta Materialia, 2017, 125, 532-541.	7.9	168
12	Thermodynamic theory of dislocation-mediated plasticity. Acta Materialia, 2010, 58, 3718-3732.	7.9	139
13	Onset of irreversibility and chaos in amorphous solids under periodic shear. Physical Review E, 2013, 88, 062401.	2.1	138
14	Reversibility and criticality in amorphous solids. Nature Communications, 2015, 6, 8805.	12.8	127
15	<a href="#">Predictions of new perovskite compounds by combining machine learning and density functional theory. Physical Review Materials, 2018, 2, .</a>	2.4	127
16	Strain glass in doped Ti50(Ni50 <sup>x</sup> D <sub>x</sub> ) (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
17	Accelerated search for BaTiO <sub>3</sub> -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
18	Superelasticity in bcc nanowires by a reversible twinning mechanism. Physical Review B, 2010, 82, .	3.2	99

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19	The climate attractor over short timescales. <i>Nature</i> , 1987, 326, 64-66.	27.8	96
20	Multi-objective Optimization for Materials Discovery via Adaptive Design. <i>Scientific Reports</i> , 2018, 8, 3738.	3.3	94
21	Modeling solid solution strengthening in high entropy alloys using machine learning. <i>Acta Materialia</i> , 2021, 212, 116917.	7.9	87
22	Statistical inference and adaptive design for materials discovery. <i>Current Opinion in Solid State and Materials Science</i> , 2017, 21, 121-128.	11.5	85
23	Machine-Learning-Based Predictive Modeling of Glass Transition Temperatures: A Case of Polyhydroxyalkanoate Homopolymers and Copolymers. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 5013-5025.	5.4	85
24	Adaptive ferroelectric state at morphotropic phase boundary: Coexisting tetragonal and rhombohedral phases. <i>Acta Materialia</i> , 2014, 71, 176-184.	7.9	77
25	Learning from data to design functional materials without inversion symmetry. <i>Nature Communications</i> , 2017, 8, 14282.	12.8	76
26	Heterogeneities and strain glass behavior: Role of nanoscale precipitates in low-temperature-aged Ti $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mrow} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 48.7 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \langle \text{mml:math} \text{Ni} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mrow} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 51.3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \langle \text{mml:math} \text{alloys}$	3.2	71
27	High temperature strain glass in Ti50(Pd50 $\hat{\sim}$ xCr $\hat{\sim}$ ) alloy and the associated shape memory effect and superelasticity. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	70
28	Materials Prediction via Classification Learning. <i>Scientific Reports</i> , 2015, 5, 13285.	3.3	68
29	Ab initio calculations of the uranium-hydrogen system: Thermodynamics, hydrogen saturation of $\hat{\pm}$ -U and phase-transformation to UH <sub>3</sub> . <i>Acta Materialia</i> , 2010, 58, 1045-1055.	7.9	60
30	Anisotropic shock response of titanium: Reorientation and transformation mechanisms. <i>Acta Materialia</i> , 2014, 65, 10-18.	7.9	57
31	Effects of Long- and Short-Range Ferroelectric Order on the Electrocaloric Effect in Relaxor Ferroelectric Ceramics. <i>Physical Review Applied</i> , 2019, 11, .	3.8	57
32	Dynamic strain loading of cubic to tetragonal martensites. <i>Acta Materialia</i> , 2006, 54, 2109-2120.	7.9	55
33	Optimal experimental design for materials discovery. <i>Computational Materials Science</i> , 2017, 129, 311-322.	3.0	54
34	Effects of Hydrodynamics on Phase Transition Kinetics in Two-Dimensional Binary Fluids. <i>Physical Review Letters</i> , 1995, 74, 3852-3855.	7.8	53
35	Strain-induced martensitic transformation in stainless steels: A three-dimensional phase-field study. <i>Acta Materialia</i> , 2013, 61, 6972-6982.	7.9	49
36	Effects of tricritical points and morphotropic phase boundaries on the piezoelectric properties of ferroelectrics. <i>Physical Review B</i> , 2011, 83, .	3.2	48

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37	Nonhysteretic Superelasticity of Shape Memory Alloys at the Nanoscale. <i>Physical Review Letters</i> , 2013, 111, 145701.	7.8	48
38	Accelerated Search for BaTiO <sub>3</sub> -Based Ceramics with Large Energy Storage at Low Fields Using Machine Learning and Experimental Design. <i>Advanced Science</i> , 2019, 6, 1901395.	11.2	44
39	Optimisation of GaN LEDs and the reduction of efficiency droop using active machine learning. <i>Scientific Reports</i> , 2016, 6, 24862.	3.3	43
40	Anomalous dislocation core structure in shock compressed bcc high-entropy alloys. <i>Acta Materialia</i> , 2021, 209, 116801.	7.9	42
41	Effects of disorder in ferroelastics: A spin model for strain glass. <i>Physical Review B</i> , 2010, 81, .	3.2	41
42	Machine learning assisted multi-objective optimization for materials processing parameters: A case study in Mg alloy. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156159.	5.5	41
43	The kinetics of the $\beta$ to $\alpha$ phase transformation in Zr, Ti: Analysis of data from shock-recovered samples and atomistic simulations. <i>Acta Materialia</i> , 2014, 77, 191-199.	7.9	40
44	Collective nature of plasticity in mediating phase transformation under shock compression. <i>Physical Review B</i> , 2014, 89, .	3.2	40
45	Structure and Curie temperature relationships in BaTiO <sub>3</sub> ferroelectric perovskites: Anomalous behavior of $\epsilon_r$ vs $T$ . DFT, statistical inference, and experiments. <i>Physical Review B</i> , 2016, 93, .	3.2	39
46	STATISTICAL ERROR IN A CHORD ESTIMATOR OF CORRELATION DIMENSION: THE "RULE OF FIVE". <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1993, 03, 765-771.	1.7	35
47	Phase transitions and phase diagram of Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> Pb-free system by anelastic measurement. <i>Journal of Applied Physics</i> , 2015, 117, 124107.	3.5	35
48	Dynamical heterogeneity in the Ising spin glass. <i>Physical Review E</i> , 1998, 57, 7350-7353.	2.1	31
49	Aging effect in paraelectric state of ferroelectrics: Implication for a microscopic explanation of ferroelectric deaging. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	31
50	Multi-objective optimization techniques to design the Pareto front of organic dielectric polymers. <i>Computational Materials Science</i> , 2016, 125, 92-99.	3.0	31
51	Interfaces in ferroelastics: Fringing fields, microstructure, and size and shape effects. <i>Physical Review B</i> , 2009, 79, .	3.2	30
52	Inverse martensitic transformation in Zr nanowires. <i>Physical Review B</i> , 2010, 81, .	3.2	28
53	Reverse phase transformation of martensite to austenite in stainless steels: a 3D phase-field study. <i>Journal of Materials Science</i> , 2014, 49, 3642-3651.	3.7	28
54	Uniaxial stress-driven coupled grain boundary motion in hexagonal close-packed metals: A molecular dynamics study. <i>Acta Materialia</i> , 2015, 82, 295-303.	7.9	28

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55	Twin boundary activated $\beta$ phase transformation in titanium under shock compression. <i>Acta Materialia</i> , 2016, 115, 1-9.	7.9	28
56	Effects of criticality and disorder on piezoelectric properties of ferroelectrics. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 345902.	1.8	27
57	Design of High Temperature Ti-Pd-Cr Shape Memory Alloys with Small Thermal Hysteresis. <i>Scientific Reports</i> , 2016, 6, 28244.	3.3	27
58	Ferroic glasses. <i>Npj Computational Materials</i> , 2017, 3, .	8.7	27
59	Phase diagram of ferroelastic systems in the presence of disorder: Analytical model and experimental verification. <i>Physical Review B</i> , 2012, 86, .	3.2	26
60	Automated pipeline for superalloy data by text mining. <i>Npj Computational Materials</i> , 2022, 8, .	8.7	25
61	Microscopic mechanism of martensitic stabilization in shape-memory alloys: Atomic-level processes. <i>Physical Review B</i> , 2010, 81, .	3.2	24
62	Role of uncertainty estimation in accelerating materials development via active learning. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	24
63	Crossover behavior for self-avoiding walks interacting with a surface. <i>Physical Review A</i> , 1990, 42, 4591-4600.	2.5	23
64	High temperature strain glass transition in defect doped Ti-Pd martensitic alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2027-2033.	1.5	23
65	Spatial adaptive sampling in multiscale simulation. <i>Computer Physics Communications</i> , 2014, 185, 1857-1864.	7.5	23
66	The Search for BaTiO <sub>3</sub> -Based Piezoelectrics With Large Piezoelectric Coefficient Using Machine Learning. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 394-401.	3.0	23
67	Determining Multi-Component Phase Diagrams with Desired Characteristics Using Active Learning. <i>Advanced Science</i> , 2021, 8, 2003165.	11.2	23
68	Accelerated discovery of high-performance piezocatalyst in BaTiO <sub>3</sub> -based ceramics via machine learning. <i>Nano Energy</i> , 2022, 97, 107218.	16.0	23
69	Origin of large electrostrain in Sn <sup>4+</sup> doped Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3-x</sub> (Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ceramics. <i>Acta Materialia</i> , 2018, 157, 155-164.	7.9	22
70	Hydrodynamic Self-Consistent Field Theory for Inhomogeneous Polymer Melts. <i>Physical Review Letters</i> , 2006, 97, 114501.	7.8	21
71	Microstructure from ferroelastic transitions using strain pseudospin clock models in two and three dimensions: A local mean-field analysis. <i>Physical Review B</i> , 2010, 82, .	3.2	21
72	Perspective: Codesign for materials science: An optimal learning approach. <i>APL Materials</i> , 2016, 4, 053501.	5.1	21

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73	Enhanced Energy Storage with Polar Vortices in Ferroelectric Nanocomposites. <i>Physical Review Applied</i> , 2017, 8, .	3.8	20
74	Learning from superelasticity data to search for Ti-Ni alloys with large elastocaloric effect. <i>Acta Materialia</i> , 2021, 218, 117200.	7.9	20
75	Phase-field modeling of the beta to omega phase transformation in Zr-Nb alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 634, 46-54.	5.6	19
76	Alpha to omega and omega to alpha phase transformations in zirconium under hydrostatic pressure: A 3D mesoscale study. <i>Acta Materialia</i> , 2016, 102, 97-107.	7.9	19
77	Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. <i>Nature Communications</i> , 2021, 12, 2841.	12.8	19
78	Energy minimization related to the nonlinear Schrödinger equation. <i>Journal of Computational Physics</i> , 2009, 228, 2572-2577.	3.8	17
79	hcp to bcc phase transition mechanisms in shocked zirconium: A machine learning based atomic simulation study. <i>Acta Materialia</i> , 2019, 162, 126-135.	7.9	17
80	Efficient estimation of material property curves and surfaces via active learning. <i>Physical Review Materials</i> , 2021, 5, .	2.4	17
81	Large room-temperature elastocaloric effect in a bulk Ti <sub>49.2</sub> Ni <sub>40.8</sub> Cu <sub>10</sub> shape memory alloy. <i>Acta Materialia</i> , 2021, 218, 117200.	7.9	17
82	Evolution analysis of $\gamma'$ precipitate coarsening in Co-based superalloys using kinetic theory and machine learning. <i>Acta Materialia</i> , 2022, 235, 118101.	7.9	17
83	Martensite aging effects on the dynamic properties of Au-Cd shape memory alloys: Characteristics and modeling. <i>Acta Materialia</i> , 2011, 59, 4999-5011.	7.9	16
84	Aging and deaging effects in shape memory alloys. <i>Physical Review B</i> , 2012, 86, .	3.2	16
85	Direct observation of hierarchical nucleation of martensite and size-dependent superelasticity in shape memory alloys. <i>Nanoscale</i> , 2014, 6, 2067.	5.6	16
86	The simultaneous occurrence of martensitic transformation and reversion of martensite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 594, 48-51.	5.6	16
87	Metastable phase transformation and hcp to bcc transformation pathways in Ti and Zr under high hydrostatic pressures. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	16
88	Ferroelectric, elastic, piezoelectric, and dielectric properties of Ba(Ti <sub>0.7</sub> Zr <sub>0.3</sub> )O <sub>3-x</sub> (Ba <sub>0.82</sub> Ca <sub>0.18</sub> )TiO <sub>3</sub> Pb-free ceramics. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	16
89	Numerical method for hydrodynamic transport of inhomogeneous polymer melts. <i>Journal of Computational Physics</i> , 2007, 224, 681-698.	3.8	14
90	Nanoscale Heterogeneity in Functional Materials. <i>MRS Bulletin</i> , 2009, 34, 822-831.	3.5	14

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91	Crystal structure and biaxial strain in $\text{RbHgF}_3$ perovskite and hybrid improper ferroelectricity in $\text{Na}_2\text{Hf}_2\text{F}_8$ .	3.2	14
92	Material descriptors for morphotropic phase boundary curvature in lead-free piezoelectrics. Applied Physics Letters, 2017, 111, 032907.	3.3	14
93	Machine learning combined with feature engineering to search for BaTiO <sub>3</sub> based ceramics with large piezoelectric constant. Journal of Alloys and Compounds, 2022, 908, 164468.	5.5	14
94	Magnetic symmetry of low-dimensional multiferroics and ferroelastics. Phase Transitions, 2011, 84, 421-437.	1.3	13
95	Heterogeneity and phase transformation in materials: Energy minimization, iterative methods and geometric nonlinearity. Acta Materialia, 2013, 61, 5311-5340.	7.9	13
96	Origin of low thermal hysteresis in shape memory alloy ultrathin films. Acta Materialia, 2016, 103, 407-415.	7.9	13
97	Doping effects of point defects in shape memory alloys. Acta Materialia, 2019, 176, 177-188.	7.9	13
98	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
99	Symbolic regression in materials science via dimension-synchronous-computation. Journal of Materials Science and Technology, 2022, 122, 77-83.	10.7	12
100	Sandwichlike strain glass phase diagram of $\text{Ti}_{1-x}\text{Ni}_x$ . Physical Review B, 2016, 94, .	4.9	11
101	Thermal Stability of Strained Nanowires. Physical Review Letters, 2009, 102, 245504.	7.8	10
102	Non-equilibrium particle-field simulations of polymer-nanocomposite dynamics. Chemical Engineering Science, 2009, 64, 4754-4757.	3.8	10
103	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
104	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
105	Asymptotic analysis of hierarchical martensitic microstructure. Journal of the Mechanics and Physics of Solids, 2014, 72, 174-192.	4.8	10
106	Critical diffusivity in the reversibility-irreversibility transition of amorphous solids under oscillatory shear. Journal of Physics Condensed Matter, 2019, 31, 045101.	1.8	10
107	Diffuse scattering as an indicator for martensitic variant selection. Acta Materialia, 2014, 66, 69-78.	7.9	9
108	A quantitative model for stabilization effect induced by ferroelectric aging. Journal of Applied Physics, 2011, 109, 124103.	2.5	7

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109	Effect of misfit strain on ferroelectric domain formation at the morphotropic phase boundary. <i>Physical Review B</i> , 2016, 94, .	3.2	7
110	Knowledge-Based Descriptor for the Compositional Dependence of the Phase Transition in BaTiO <sub>3</sub> -Based Ferroelectrics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 44970-44980.	8.0	7
111	Enhanced magnetocaloric performance in manganite bilayers. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	7
112	Temperature-field history dependence of the elastocaloric effect for a strain glass alloy. <i>Journal of Materials Science and Technology</i> , 2022, 103, 8-14.	10.7	7
113	In situ observation of thermally activated domain memory and polarization memory in an aged K <sup>+</sup> -doped (Ba, Sr)TiO <sub>3</sub> single crystal. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 275902.	1.8	6
114	Modelling magnetostructural textures in magnetic shape-memory alloys: Strain and magnetic glass behaviour. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2080-2087.	1.5	6
115	Martensite formation in stainless steels under transient loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 608, 101-105.	5.6	6
116	Physics-based statistical learning approach to mesoscopic model selection. <i>Physical Review E</i> , 2015, 92, 053301.	2.1	6
117	First-principles study of the $\epsilon$ - $\delta$ phase transformation in Ti and Zr coupled to slip modes. <i>Journal of Applied Physics</i> , 2018, 123, 045903.	2.5	6
118	Data-Based Methods for Materials Design and Discovery: Basic Ideas and General Methods. <i>Synthesis Lectures on Materials and Optics</i> , 2020, 1, 1-188.	0.2	6
119	Enhanced Energy-Storage Density by Reversible Domain Switching in Acceptor-Doped Ferroelectrics. <i>Physical Review Applied</i> , 2021, 15, .	3.8	6
120	Long-time behavior of the $\beta$ - $\alpha'$ transition in shocked zirconium: Interplay of nucleation and plastic deformation. <i>Acta Materialia</i> , 2016, 108, 138-142.	7.9	5
121	Role of cadmium on the phase transitions and electrical properties of BaTiO <sub>3</sub> ceramics. <i>Ceramics International</i> , 2017, 43, 1114-1120.	4.8	5
122	Influence of Finite Size on the Electrocaloric Response in PbTiO <sub>3</sub> Ceramics Near Room Temperature Using Landau Theory. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700469.	1.5	5
123	Machine-Learning-Enabled Prediction of Adiabatic Temperature Change in Lead-Free BaTiO <sub>3</sub> -Based Electrocaloric Ceramics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 53475-53484.	8.0	5
124	Electric hysteresis and validity of indirect electrocaloric characterization in antiferroelectric ceramics. <i>Scripta Materialia</i> , 2022, 216, 114763.	5.2	5
125	Evidence for short-time limit of martensite deaging in shape-memory alloys: Experiment and atomistic simulation. <i>Applied Physics Letters</i> , 2010, 97, 171902.	3.3	4
126	Origin of ultrafast annihilation effect of martensite aging: Atomistic simulations. <i>Physical Review B</i> , 2010, 82, .	3.2	4



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127	Aging Effect in Acceptor-Donor Co-Doped Ferroelectrics. <i>Ferroelectrics</i> , 2010, 404, 141-146.	0.6	4
128	Phase transformations in Titanium: Anisotropic deformation of $\beta$ phase. <i>Journal of Physics: Conference Series</i> , 2014, 500, 112042.	0.4	4
129	On glassy behavior in ferroics. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2003-2009.	1.5	4
130	Efficient sampling for decision making in materials discovery*. <i>Chinese Physics B</i> , 2021, 30, 050705.	1.4	4
131	Molecular dynamics simulations of ultralow hysteretic behavior in super-elastic shape memory alloys. <i>Acta Materialia</i> , 2022, 232, 117973.	7.9	4
132	Control of Ferroelectric Aging by Manipulating Point Defects. <i>Ferroelectrics</i> , 2010, 401, 45-50.	0.6	3
133	The Irreversibility Transition in Amorphous Solids Under Periodic Shear. <i>Understanding Complex Systems</i> , 2017, , 227-259.	0.6	3
134	Bayesian Global Optimization applied to the design of shape-memory alloys. , 2020, , 519-537.		3
135	Spin Models for Ferroelastics: towards a Spin Glass Description of Strain Glass. <i>Solid State Phenomena</i> , 0, 172-174, 1078-1083.	0.3	2
136	Athermal Martensites, Temperature-Time-Transformation Diagrams and Thermal Hysteresis: Monte Carlo Simulations of Strain Pseudospins. <i>Solid State Phenomena</i> , 2012, 185, 31-33.	0.3	1
137	Disentangling the effect of doping chemistry on the energy storage property of barium titanate ferroelectrics via data science tools. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	1
138	Influence of Dislocations on the Spatial Variation of Microstructure in Martensites. <i>Key Engineering Materials</i> , 0, 465, 77-80.	0.4	0
139	Quasi-one-dimensional thermal breakage. <i>Physical Review E</i> , 2013, 88, 042409.	2.1	0
140	Effects of thermal and electrical hysteresis on phase transitions and electrocaloric effect in ferroelectrics: A computational study. <i>Acta Materialia</i> , 2022, 228, 117784.	7.9	0