Sergei V Kalinin

List of Publications by Year
in descending order

1,099 papers	47,828 citations	2037 101 h-index	5268 166 g-index
1148 all docs	1148 docs citations	1148 times ranked	47959 citing authors

#	Article	IF	Citations
1	Semiparametric Averaging of Nonlinear Marginal Logistic Regressions and Forecasting for Time Series Classification. Econometrics and Statistics, 2024, 31, 19-37.	0.9	1
2	Bending-induced isostructural transitions in ultrathin layers of van der Waals ferrielectrics. Acta Materialia, 2024, 263, 119519.	8.0	2
3	Gastrointestinal parasite infections in Nepalese Gurkha recruits arriving in the United Kingdom from 2012â€“2020. PLoS Neglected Tropical Diseases, 2024, 18, e0011931.	2.4	0
4	A dynamic Bayesian optimized active recommender system for curiosity-driven partially Human-in-the-loop automated experiments. Npj Computational Materials, 2024, 10, .	9.1	6
5	New in-sights into the engineering of reactive oxygen species with boosting photothermal catalytic selectivity for dihydroxyacetone by synergistic Cu/Ce bimetallic active center over BiVO4. Molecular Catalysis, 2024, 555, 113871.	2.1	0
6	Review of low-cost self-driving laboratories in chemistry and materials science: the â€œfrugal twinâ€• concept. Digital Discovery, 2024, 3, 842-868.	5.7	3
7	Perspectives and progress on wurtzite ferroelectrics: Synthesis, characterization, theory, and device applications. Applied Physics Letters, 2024, 124, .	3.2	2
8	Designing workflows for materials characterization. Applied Physics Reviews, 2024, 11, .	11.7	2
9	Discovering invariant spatial features in electron energy loss spectroscopy images on the mesoscopic and atomic levels. Journal of Applied Physics, 2024, 135, .	2.3	0
10	Unraveling the impact of initial choices and in-loop interventions on learning dynamics in autonomous scanning probe microscopy. Journal of Applied Physics, 2024, 135, .	2.3	0
11	Phase diagrams and polarization reversal in nanosized HfxZr1â^'xO2â^'y. AIP Advances, 2024, 14, .	1.3	0
12	Generation of polygonal non-diffracting beams via angular spectral phases. Optics Express, 2024, 32, 23458.	3.4	0
13	Bromine Incorporation Affects Phase Transformations and Thermal Stability of Lead Halide Perovskites. Journal of the American Chemical Society, 2024, 146, 18576-18585.	14.6	0
14	Postoperative anaemia increases unplanned readmission: an international prospective cohort study of patients undergoing major abdominal surgery. British Journal of Surgery, 2024, 111, .	0.3	0
15	Dynamic STEM-EELS for single-atom and defect measurement during electron beam transformations. Science Advances, 2024, 10, .	10.9	0
16	Query-Efficient Textual Adversarial Example Generation for Black-Box Attacks. , 2024, , .		0
17	Physical discovery in representation learning via conditioning on prior knowledge. Journal of Applied Physics, 2024, 136, .	2.3	0
18	Physics and chemistry from parsimonious representations: image analysis via invariant variational autoencoders. Npj Computational Materials, 2024, 10, .	9.1	0

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19	Integration of scanning probe microscope with high-performance computing: Fixed-policy and reward-driven workflows implementation. Review of Scientific Instruments, 2024, 95, .	1.4	0
20	Ferri-ionic coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Cu</mml:mi><mml:mi>In</mml:mi><mml:mi mathvariant="normal">P</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow></mml:mrow><mml:mn>6</mml:mn></mml:msub></mml:math> nanoflakes: Polarization states and controllable negative capacitance. Physical Review Applied, 2024,	3.8	0
21	Realizing smart scanning transmission electron microscopy using high performance computing. Review of Scientific Instruments, 2024, 95, .	1.4	0
22	Setting standards for data driven materials science. Npj Computational Materials, 2024, 10, .	9.1	0
23	Exploring the Evolution of Metal Halide Perovskites via Latent Representations of the Photoluminescent Spectra. Advanced Intelligent Systems, 2023, 5, .	6.7	2
24	Tackling overpublishing by moving to open-ended papers. Nature Materials, 2023, 22, 270-271.	26.6	7
25	Learning the right channel in multimodal imaging: automated experiment in piezoresponse force microscopy. Npj Computational Materials, 2023, 9, .	9.1	6
26	AKUT Ä°SKEMÄ°K Ä°NMEDE SÄ°STEMÄ°K Ä°MMÃœN-Ä°NFLAMASYON ENDEKSÄ°NÄ°N (SIII) TANISAL DEÄžERLÄ°LÄ°ÄžÄ°. Journal of Contemporary Medicine, 2023, 13, 187-192.	0.2	1
27	Learning and Predicting Photonic Responses of Plasmonic Nanoparticle Assemblies via Dual Variational Autoencoders. Small, 2023, 19, .	11.2	8
28	Exploring the Relationship of Microstructure and Conductivity in Metal Halide Perovskites via Active Learning-Driven Automated Scanning Probe Microscopy. Journal of Physical Chemistry Letters, 2023, 14, 3352-3359.	4.9	13
29	Disentangling Electronic Transport and Hysteresis at Individual Grain Boundaries in Hybrid Perovskites via Automated Scanning Probe Microscopy. ACS Nano, 2023, 17, 9647-9657.	15.3	9
30	Transverse oscillations and an energy source in a strongly magnetized sunspot. Nature Astronomy, 2023, 7, 856-866.	7.8	16
31	Unsupervised machine learning discovery of structural units and transformation pathways from imaging data. , 2023, 1, .		4
32	Ferroelectricity in hafnia controlled via surface electrochemical state. Nature Materials, 2023, 22, 1144-1151.	26.6	21
33	Discovery of structureâ€“property relations for molecules via hypothesis-driven active learning over the chemical space. , 2023, 1, .		3
34	Ferroelectric Schottky diodes of CuInP2S6 nanosheet. Applied Physics Letters, 2023, 123, .	3.2	1
35	Finding simplicity: unsupervised discovery of features, patterns, and order parameters via shift-invariant variational autoencoders [*]. Machine Learning: Science and Technology, 2023, 4, 045033.	5.2	0
36	The strain-induced transitions of the piezoelectric, pyroelectric, and electrocaloric properties of the CuInP2S6 films. AIP Advances, 2023, 13, .	1.3	0

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37	Machine learning for automated experimentation in scanning transmission electron microscopy. Npj Computational Materials, 2023, 9, .	9.1	11
38	Dynamic Facial Expression Recognition Based on Vision Transformer with Deformable Module. , 2023, , .		0
39	The value of using emotions in solution focused brief therapy. Journal of Marital and Family Therapy, 2022, 48, 812-826.	1.3	4
40	Oxygen Vacancy Injection as a Pathway to Enhancing Electromechanical Response in Ferroelectrics. Advanced Materials, 2022, 34, e2106426.	24.3	23
41	Disentangling ferroelectric domain wall geometries and pathways in dynamic piezoresponse force microscopy via unsupervised machine learning. Nanotechnology, 2022, 33, 055707.	2.7	19
42	Bone stress injuries and fatigue fractures of the pelvis in endurance horses. Equine Veterinary Journal, 2022, 54, 1064-1075.	1.7	1
43	Towards automating structural discovery in scanning transmission electron microscopy [*]. Machine Learning: Science and Technology, 2022, 3, 015024.	5.2	11
44	Sculpting the Plasmonic Responses of Nanoparticles by Directed Electron Beam Irradiation. Small, 2022, 18, e2105099.	11.2	6
45	Physics makes the difference: Bayesian optimization and active learning via augmented Gaussian process. Machine Learning: Science and Technology, 2022, 3, 015003.	5.2	23
46	Utility of procalcitonin and C-reactive protein as predictors of Gram-negative bacteremia in febrile hematological outpatients. Supportive Care in Cancer, 2022, 30, 4303-4314.	2.3	4
47	Association between physical activity and patient-reported outcome measures in patients with lung cancer: a systematic review and meta-analysis. Quality of Life Research, 2022, 31, 1963-1976.	3.2	12
48	From inoperable to back to life: a case report of successfully treated obstructive right ventricular primary cardiac lymphoma. European Heart Journal - Case Reports, 2022, 6, ytac051.	0.6	4
49	Probe Sonicated Synthesis of Bismuth Oxide (Bi2O3): Photocatalytic Application and Electrochemical Sensing of Ascorbic Acid and Lead. Journal of Nanomaterials, 2022, 2022, 1-13.	2.8	35
50	Building an Integrated Ecosystem of Computational and Observational Facilities to Accelerate Scientific Discovery. Communications in Computer and Information Science, 2022, , 58-75.	0.0	1
51	Latent Mechanisms of Polarization Switching from In Situ Electron Microscopy Observations. Advanced Functional Materials, 2022, 32, .	16.5	7
52	Functional Mechanisms of Health Behavior Change Techniques: A Conceptual Review. Frontiers in Psychology, 2022, 13, 725644.	2.3	15
53	Machine learning in scanning transmission electron microscopy. Nature Reviews Methods Primers, 2022, 2, .	18.8	66
54	Preparation of antimicrobial activated carbon fiber for adsorption. Journal of Porous Materials, 2022, 29, 1071-1081.	2.6	7

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55	Investigation of the transverse fracture mechanisms of bamboo by the finite element method. Journal of Materials Science, 2022, 57, 6233-6248.	3.7	11
56	Hypothesis Learning in Automated Experiment: Application to Combinatorial Materials Libraries. Advanced Materials, 2022, 34, e2201345.	24.3	42
57	Chemical control of polarization in thin strained films of a multiaxial ferroelectric: Phase diagrams and polarization rotation. Physical Review B, 2022, 105, .	3.3	4
58	The Î±-amylase and Î±-glucosidase inhibitory effects of some traditional antidiabetic prescriptions based on bioautography using LC-ESI/MSMS. Journal of Medicinal Plants, 2022, 21, 33-50.	0.9	1
59	Experimental discovery of structureâ€“property relationships in ferroelectric materials via active learning. Nature Machine Intelligence, 2022, 4, 341-350.	15.2	56
60	Exploring Causal Physical Mechanisms via Non-Gaussian Linear Models and Deep Kernel Learning: Applications for Ferroelectric Domain Structures. ACS Nano, 2022, 16, 1250-1259.	15.3	15
61	Tunable Microwave Conductance of Nanodomains in Ferroelectric PbZr_{0.2}Ti_{0.8}O₃ Thin Film. Advanced Electronic Materials, 2022, 8, .	5.4	6
62	Lightâ€“ferroelectric interaction in two-dimensional lead iodide perovskites. Journal of Materials Chemistry A, 2022, 10, 10120-10131.	10.5	3
63	METHOD FOR INCREASING THE EFFICIENCY OF THE POWER PLANT OF AN UNMANNED AERIAL VEHICLE. , 2022, 26, 48-58.		2
64	Bridging microscopy with molecular dynamics and quantum simulations: an atomAI based pipeline. Npj Computational Materials, 2022, 8, .	9.1	12
65	Recurrent SARS-CoV-2 Infection and Impaired Immunologic Response in a Pediatric Oncologic Patient While Treated With Radiochemotherapy. Pediatric Infectious Disease Journal, 2022, 41, e259-e262.	2.0	1
66	Musculoskeletal ultrasound may narrow the gap between patients and physicians in the assessment of rheumatoid arthritis disease activity. Rheumatology, 2022, 62, 116-123.	2.1	1
67	Performance Analysis of Conventional Machine Learning Algorithms for Diabetic Sensorimotor Polyneuropathy Severity Classification Using Nerve Conduction Studies. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.8	7
68	Automated Experiment in 4D-STEM: Exploring Emergent Physics and Structural Behaviors. ACS Nano, 2022, 16, 7605-7614.	15.3	29
69	SARS-COV-2 detection in saliva and nasopharyngeal swabs using RT-PCR was similar. Brazilian Dental Journal, 2022, 33, 68-72.	1.1	5
70	Exploring leakage in dielectric films via automated experiments in scanning probe microscopy. Applied Physics Letters, 2022, 120, .	3.2	6
71	Configurationâ€Dependent Liquid Crystal and Gel Behaviors of Tetraphenyletheneâ€Containing Mainâ€Chain Copolyesters. Macromolecular Rapid Communications, 2022, 43, e2200154.	4.4	7
72	Highly enhanced ferroelectricity in HfO ₂ -based ferroelectric thin film by light ion bombardment. Science, 2022, 376, 731-738.	20.9	79

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73	Observability of negative capacitance of a ferroelectric film: Theoretical predictions. Physical Review B, 2022, 105, .	3.3	4
74	Size Effect of Local Current-Voltage Characteristics of MX ₂ Nanoflakes: Local Density of States Reconstruction from Scanning Tunneling Microscopy Experiments. Physical Review Applied, 2022, 17, .	3.8	0
75	Dynamic control of ferroionic states in ferroelectric nanoparticles. Acta Materialia, 2022, 237, 118138.	8.0	2
76	Ganoderma atrum polysaccharide relieves mitochondrial dysfunction to alleviate hydrogen peroxide-induced senescence via activating autophagy. Journal of Future Foods, 2022, 2, 241-252.	4.7	4
77	Strain-Induced asymmetry and on-site dynamics of silicon defects in graphene. Carbon Trends, 2022, 9, 100189.	3.1	0
78	Accretion flows around exotic tidal wormholes. Astronomy and Astrophysics, 2022, 665, A139.	5.3	5
79	From atomically resolved imaging to generative and causal models. Nature Physics, 2022, 18, 1152-1160.	11.8	9
80	Perancangan Meja Las yang Ergonomis berdasarkan Analysis REBA di Universitas Sebelas Maret. Jurnal Ilmiah Pendidikan Teknik Dan Kejuruan, 2022, 15, 70.	0.1	0
81	Bayesian Active Learning for Scanning Probe Microscopy: From Gaussian Processes to Hypothesis Learning. ACS Nano, 2022, 16, 13492-13512.	15.3	37
82	Decoding the Mechanisms of Phase Transitions from In Situ Microscopy Observations. Small, 2022, 18, .	11.2	3
83	Electron-Beam Induced Emergence of Mesoscopic Ordering in Layered MnPS₃. ACS Nano, 2022, 16, 16713-16723.	15.3	4
84	Probing Electron Beam Induced Transformations on a Single-Defect Level via Automated Scanning Transmission Electron Microscopy. ACS Nano, 2022, 16, 17116-17127.	15.3	26
85	New complementary python codes to locate Single Nucleotide Polymorphisms (SNPs) and Overlapping G-Quadruplex Sequences (G4s). MethodsX, 2022, 9, 101875.	1.6	3
86	Unsupervised learning of ferroic variants from atomically resolved STEM images. AIP Advances, 2022, 12, .	1.3	2
87	Hierarchical Materials from High Information Content Macromolecular Building Blocks: Construction, Dynamic Interventions, and Prediction. Chemical Reviews, 2022, 122, 17397-17478.	51.4	32
88	Physics Discovery in Nanoplasmonic Systems via Autonomous Experiments in Scanning Transmission Electron Microscopy. Advanced Science, 2022, 9, .	12.4	28
89	AtomAI framework for deep learning analysis of image and spectroscopy data in electron and scanning probe microscopy. Nature Machine Intelligence, 2022, 4, 1101-1112.	15.2	41
90	Pengaruh Interpersonal Trust dan Intimate Friendship Terhadap Self-Disclosure Generasi Z Pengguna Twitter. Journal of Social and Industrial Psychology, 2022, 11, 44-52.	0.0	0

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91	Impact of Decision Rules and Non-cooperative Behaviors on Minimum Consensus Cost in Group Decision Making. Group Decision and Negotiation, 2021, 30, 1239-1260.	3.4	93
92	Ferroelastic Nanodomain-mediated Mechanical Switching of Ferroelectricity in Thick Epitaxial Films. Nano Letters, 2021, 21, 445-452.	9.5	11
93	Probing potential energy landscapes via electron-beam-induced single atom dynamics. Acta Materialia, 2021, 203, 116508.	8.0	5
94	Direct Observation of Photoinduced Ion Migration in Lead Halide Perovskites. Advanced Functional Materials, 2021, 31, 2008777.	16.5	45
95	Quantifying the Dynamics of Protein Self-Organization Using Deep Learning Analysis of Atomic Force Microscopy Data. Nano Letters, 2021, 21, 158-165.	9.5	20
96	A first-principles study on strain engineering of monolayer stanene for enhanced catalysis of CO2 reduction. Chemosphere, 2021, 268, 129317.	8.4	9
97	The synergistic effects of Xu Duan combined Sr-contained calcium silicate/poly-Îµ-caprolactone scaffolds for the promotion of osteogenesis marker expression and the induction of bone regeneration in osteoporosis. Materials Science and Engineering C, 2021, 119, 111629.	7.8	29
98	Towards data-driven next-generation transmission electron microscopy. Nature Materials, 2021, 20, 274-279.	26.6	140
99	Alignment of Au nanorods along de novo designed protein nanofibers studied with automated image analysis. Soft Matter, 2021, 17, 6109-6115.	2.8	6
100	Toward Decoding the Relationship between Domain Structure and Functionality in Ferroelectrics via Hidden Latent Variables. ACS Applied Materials & Interfaces, 2021, 13, 1693-1703.	8.3	23
101	Luminescent and thermal properties of novel orangeâ€“red emitting MgNb2O6:Sm3+ phosphors for displays, photo catalytic and sensor applications. SN Applied Sciences, 2021, 3, 1.	2.9	24
102	Off-the-shelf deep learning is not enough, and requires parsimony, Bayesianity, and causality. Npj Computational Materials, 2021, 7, .	9.1	33
103	Andrographis paniculata and Its Main Bioactive Ingredient Andrographolide Decrease Alcohol Drinking and Seeking in Rats Through Activation of Nuclear PPARÎ³ Pathway. Alcohol and Alcoholism, 2021, 56, 240-249.	1.7	4
104	Effects of elevated ozone and nitrogen addition on leaf nitrogen metabolism in poplar. Journal of Plant Ecology, 2021, 14, 555-568.	2.4	5
105	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. ACS Nano, 2021, 15, 3971-3995.	15.3	42
106	Computational scanning tunneling microscope image database. Scientific Data, 2021, 8, 57.	5.4	22
107	Predictability as a probe of manifest and latent physics: The case of atomic scale structural, chemical, and polarization behaviors in multiferroic Sm-doped BiFeO3. Applied Physics Reviews, 2021, 8, .	11.7	8
108	Responsibility to Protect in International Criminal Law. , 2021, , 112-134.		1

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109	Study on the Guard Rings for Latchup Prevention between HV-PMOS and LV-PMOS in a 0.15-Âµm BCD Process. , 2021, , .		2
110	Islet transplantation ameliorates diabetes-induced testicular interstitial fibrosis and is associated with inhibition of TGF-Î²1/Smad2 pathway in a rat model of type 1 diabetes. Molecular Medicine Reports, 2021, 23, .	2.5	4
111	Thermodynamics of order and randomness in dopant distributions inferred from atomically resolved imaging. Npj Computational Materials, 2021, 7, .	9.1	1
112	Investigating phase transitions from local crystallographic analysis based on statistical learning of atomic environments in 2D MoS2-ReS2. Applied Physics Reviews, 2021, 8, 011409.	11.7	7
113	Exploring order parameters and dynamic processes in disordered systems via variational autoencoders. Science Advances, 2021, 7, .	10.9	49
114	The dream vaccine. Science, 2021, 372, 227-231.	20.9	23
115	Disentangling Rotational Dynamics and Ordering Transitions in a System of Self-Organizing Protein Nanorods via Rotationally Invariant Latent Representations. ACS Nano, 2021, 15, 6471-6480.	15.3	24
116	Separating Physically Distinct Mechanisms in Complex Infrared Plasmonic Nanostructures via Machine Learning Enhanced Electron Energy Loss Spectroscopy. Advanced Optical Materials, 2021, 9, 2001808.	7.9	15
117	Predictability of Localized Plasmonic Responses in Nanoparticle Assemblies. Small, 2021, 17, e2100181.	11.2	21
118	Comparative thermal analysis of an EG-based nanofluid containing DWCNTs. European Physical Journal Plus, 2021, 136, 1.	2.6	0
119	AIRMESS â€“ Academy of International Regenerative Medicine & Surgery Societies: recommendations in the use of platelet-rich plasma (PRP), autologous stem cell-based therapy (ASC-BT) in androgenetic alopecia and wound healing. Expert Opinion on Biological Therapy, 2021, 21, 1443-1449.	3.2	20
120	Role of Decomposition Product Ions in Hysteretic Behavior of Metal Halide Perovskite. ACS Nano, 2021, 15, 9017-9026.	15.3	14
121	Ferroelectric and Charge Transport Properties in Strain-Engineered Two-Dimensional Lead Iodide Perovskites. Chemistry of Materials, 2021, 33, 4077-4088.	7.1	11
122	Probing atomic-scale symmetry breaking by rotationally invariant machine learning of multidimensional electron scattering. Npj Computational Materials, 2021, 7, .	9.1	19
123	Exploring Responses of Contact Kelvin Probe Force Microscopy in Triple-Cation Double-Halide Perovskites. Journal of Physical Chemistry C, 2021, 125, 12355-12365.	3.3	3
124	Revealing the Chemical Bonding in Adatom Arrays via Machine Learning of Hyperspectral Scanning Tunneling Spectroscopy Data. ACS Nano, 2021, 15, 11806-11816.	15.3	15
125	Literature Review of the In-Plane Behavior of Masonry Walls: Theoretical vs. Experimental Results. Materials, 2021, 14, 3063.	3.0	27
126	Coordination pattern and variability in a flexion movement control test used in clinical assessment. Studies in Health Technology and Informatics, 2021, 280, 272-273.	0.0	0

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127	Bayesian Learning of Adatom Interactions from Atomically Resolved Imaging Data. ACS Nano, 2021, 15, 9649-9657.	15.3	9
128	Ferroic Halide Perovskite Optoelectronics. Advanced Functional Materials, 2021, 31, 2102793.	16.5	25
129	Renal Transplantation in Iraq. Transplantation, 2021, 105, 1131-1134.	1.1	6
130	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmentalâ€Dependent Impedance Spectroscopy. Advanced Science, 2021, 8, e2002510.	12.4	27
131	Electron beam modification of plasmonic responses of nanoparticles. Microscopy and Microanalysis, 2021, 27, 3066-3068.	0.4	0
132	Automated Experiment in SPM: Bayesian Optimization for efficient searching of parameter space to maximize functional response. Microscopy and Microanalysis, 2021, 27, 470-471.	0.4	1
133	Building an edge computing infrastructure for rapid multi-dimensional electron microscopy. Microscopy and Microanalysis, 2021, 27, 56-57.	0.4	3
134	Ensemble learning-iterative training machine learning for uncertainty quantification and automated experiment in atom-resolved microscopy. Npj Computational Materials, 2021, 7, .	9.1	37
135	Vascular endothelial growth factor B exerts lipid-lowering effect by activating AMPK via VEGFR1. Life Sciences, 2021, 276, 119401.	4.4	10
136	Atomic-scale Feedback-controlled Electron Beam Fabrication of 2D Materials. Microscopy and Microanalysis, 2021, 27, 3072-3073.	0.4	0
137	Autonomous Experiments in Scanning Probe Microscopy and Spectroscopy: Choosing Where to Explore Polarization Dynamics in Ferroelectrics. ACS Nano, 2021, 15, 11253-11262.	15.3	26
138	Scalable Wood Hydrogel Membrane with Nanoscale Channels. ACS Nano, 2021, 15, 11244-11252.	15.3	76
139	Automated and Autonomous Experiments in Electron and Scanning Probe Microscopy. ACS Nano, 2021, 15, 12604-12627.	15.3	64
140	Automatic detection of crystallographic defects in STEM images by unsupervised learning with translational invariance. Microscopy and Microanalysis, 2021, 27, 1460-1462.	0.4	1
141	A combined theoretical and experimental study of the phase coexistence and morphotropic boundaries in ferroelectric-antiferroelectric-antiferrodistortive multiferroics. Acta Materialia, 2021, 213, 116939.	8.0	3
142	Propagation of priors for more accurate and efficient spectroscopic functional fits and their application to ferroelectric hysteresis. Machine Learning: Science and Technology, 2021, 2, 045002.	5.2	2
143	Direct mapping of polarization fields from STEM images: A Deep Learning based exploration of ferroelectrics. Microscopy and Microanalysis, 2021, 27, 2990-2992.	0.4	0
144	Electron Beam Control of Dopants in 2D and 3D Materials. Microscopy and Microanalysis, 2021, 27, 2150-2153.	0.4	0

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145	Acquisition and User Behavior in Online Science Laboratories before and during the COVID-19 Pandemic. Multimodal Technologies and Interaction, 2021, 5, 46.	2.6	8
146	Stress-induced phase transitions in nanoscale <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Cu</mml:mi><mml:mi>In</mml:mi><mml:msub><mml:m mathvariant="normal">P</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	3.3	15
147	Flexosensitive polarization vortices in thin ferroelectric films. Physical Review B, 2021, 104, .	3.3	10
148	Testing the relationships among event personality, event image and runnersâ€™ loyalty: a study of an international running event. Sport, Business and Management, 2021, , .	1.3	2
149	Deep learning ferroelectric polarization distributions from STEM data via with and without atom finding. Npj Computational Materials, 2021, 7, .	9.1	7
150	Disentangling Ferroelectric Wall Dynamics and Identification of Pinning Mechanisms via Deep Learning. Advanced Materials, 2021, 33, e2103680.	24.3	21
151	Sub-10 nm Probing of Ferroelectricity in Heterogeneous Materials by Machine Learning Enabled Contact Kelvin Probe Force Microscopy. ACS Applied Electronic Materials, 2021, 3, 4409-4417.	4.4	4
152	Decoding the shift-invariant data: applications for band-excitation scanning probe microscopy [*]. Machine Learning: Science and Technology, 2021, 2, 045028.	5.2	9
153	Gaussian process analysis of electron energy loss spectroscopy data: multivariate reconstruction and kernel control. Npj Computational Materials, 2021, 7, .	9.1	6
154	Probing polarization dynamics at specific domain configurations: Computer-vision based automated experiment in piezoresponse force microscopy. Applied Physics Letters, 2021, 119, .	3.2	5
155	Probing Metastable Domain Dynamics via Automated Experimentation in Piezoresponse Force Microscopy. ACS Nano, 2021, 15, 15096-15103.	15.3	6
156	Identification and correction of temporal and spatial distortions in scanning transmission electron microscopy. Ultramicroscopy, 2021, 229, 113337.	1.9	7
157	Unraveling the hysteretic behavior at double cations-double halides perovskite - electrode interfaces. Nano Energy, 2021, 89, 106428.	16.5	11
158	Distilling nanoscale heterogeneity of amorphous silicon using tip-enhanced Raman spectroscopy (TERS) via multiresolution manifold learning. Nature Communications, 2021, 12, 578.	13.2	29
159	Chasing the Unicorn? The Feasibility of Automatic Assessment of Interpreting Fluency. New Frontiers in Translation Studies, 2021, , 143-158.	0.0	4
160	Machine learning for high-throughput experimental exploration of metal halide perovskites. Joule, 2021, 5, 2797-2822.	24.7	55
161	Exploring the physics of cesium lead halide perovskite quantum dots via Bayesian inference of the photoluminescence spectra in automated experiment. Nanophotonics, 2021, 10, 1977-1989.	6.3	16
162	Effect of Surface Ionic Screening on Polarization Reversal and Phase Diagrams in Thin Antiferroelectric Films for Information and Energy Storage. Physical Review Applied, 2021, 16, .	3.8	11

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163	Availability as key determinant in the palliative home care setting from the patientsâ€™ and family caregiversâ€™ perspectives: A quantitative-qualitative-content analysis approach. Palliative and Supportive Care, 2021, 19, 570-579.	1.2	5
164	Structureâ€“antitumor activity relationships of tripodal imidazolium-amino acid based salts. Effect of the nature of the amino acid, amide substitution and anion. Organic and Biomolecular Chemistry, 2021, 19, 10575-10586.	2.9	5
165	Defect detection in atomic-resolution images via unsupervised learning with translational invariance. Npj Computational Materials, 2021, 7, .	9.1	14
166	Tracking atomic structure evolution during directed electron beam induced Si-atom motion in graphene via deep machine learning. Nanotechnology, 2021, 32, 035703.	2.7	11
167	Exploring electron beam induced atomic assembly via reinforcement learning in a molecular dynamics environment. Nanotechnology, 2021, , .	2.7	4
168	Multi-objective Bayesian optimization of ferroelectric materials with interfacial control for memory and energy storage applications. Journal of Applied Physics, 2021, 130, .	2.3	16
169	Finafloxacin, a Novel Fluoroquinolone, Reduces the Clinical Signs of Infection and Pathology in a Mouse Model of Q Fever. Frontiers in Microbiology, 2021, 12, 760698.	3.6	5
170	High-Throughput Study of Antisolvents on the Stability of Multicomponent Metal Halide Perovskites through Robotics-Based Synthesis and Machine Learning Approaches. Journal of the American Chemical Society, 2021, 143, 19945-19955.	14.6	41
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