

# Ming Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2201033/publications.pdf>

Version: 2024-02-01

90  
papers

4,552  
citations

136740

32  
h-index

106150

65  
g-index

91  
all docs

91  
docs citations

91  
times ranked

4865  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural network potential for Zr–Rh system by machine learning. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 075402.	0.7	6
2	Ultrafast and stable phase transition realized in MoTe <sub>2</sub> -based memristive devices. <i>Materials Horizons</i> , 2022, 9, 1036-1044.	6.4	9
3	A fungal microRNA-like RNA subverts host immunity and facilitates pathogen infection by silencing two host receptor-like kinase genes. <i>New Phytologist</i> , 2022, 233, 2503-2519.	3.5	19
4	Designing Conductive-Bridge Phase-Change Memory to Enable Ultralow Programming Power. <i>Advanced Science</i> , 2022, 9, e2103478.	5.6	26
5	Deep machine learning unravels the structural origin of mid-gap states in chalcogenide glass for high-density memory integration. <i>Informa Mater</i> , 2022, 4, .	8.5	34
6	Artificial Synapses Based on WSe <sub>2</sub> Homojunction via Vacancy Migration. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 21141-21149.	4.0	12
7	How arsenic makes amorphous GeSe a robust chalcogenide glass for advanced memory integration. <i>Scripta Materialia</i> , 2022, 218, 114834.	2.6	17
8	10 MA cm <sup>-2</sup> current density in nanoscale conductive bridge threshold switching selector via densely localized cation sources. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14799-14807.	2.7	3
9	Characterizations of electronic and optical properties of Sb-based phase-change material stabilized by alloying Cr. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	7
10	Reducing alcohol and/or cocaine-induced reward and toxicity via an epidermal stem cell-based gene delivery platform. <i>Molecular Psychiatry</i> , 2021, 26, 5266-5276.	4.1	5
11	An autophagy-related protein Becn2 regulates cocaine reward behaviors in the dopaminergic system. <i>Science Advances</i> , 2021, 7, .	4.7	9
12	Three Resistance States Achieved by Nanocrystalline Decomposition in Ge <sub>2</sub> Ga <sub>3</sub> Sb Compound for Multilevel Phase Change Memory. <i>Advanced Electronic Materials</i> , 2021, 7, 2100164.	2.6	16
13	Low-Power Memristive Logic Device Enabled by Controllable Oxidation of 2D HfSe <sub>2</sub> for In-Memory Computing. <i>Advanced Science</i> , 2021, 8, e2005038.	5.6	47
14	Metavalent Bonding in Crystalline Solids: How Does It Collapse?. <i>Advanced Materials</i> , 2021, 33, e2102356.	11.1	65
15	Structural features of chalcogenide glass SiTe: An ovonic threshold switching material. <i>APL Materials</i> , 2021, 9, .	2.2	12
16	Superconducting Phase Induced by a Local Structure Transition in Amorphous $Sb_{2-x}Te_x$ under High Pressure. <i>Physical Review Letters</i> , 2021, 127, 127002.	2.9	13
17	Structure, bonding nature and transition dynamics of amorphous Te. <i>Scripta Materialia</i> , 2021, 202, 114011.	2.6	15
18	Ultrafast crystallization mechanism of amorphous Ge <sub>15</sub> Sb <sub>85</sub> unraveled by pressure-driven simulations. <i>Acta Materialia</i> , 2021, 216, 117123.	3.8	13

#	ARTICLE	IF	CITATIONS
19	Resistance Drift Suppression Utilizing GeTe/Sb <sub>2</sub> Te <sub>3</sub> Superlattice-Like Phase-Change Materials. <i>Advanced Electronic Materials</i> , 2020, 6, 1900781.	2.6	27
20	Raman spectroscopy and lattice dynamical stability study of 2D ferromagnetic semiconductor Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> under high pressure. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153368.	2.8	14
21	Suppressed resistance drift from short range order of amorphous GeTe ultrathin films. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	17
22	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. <i>ACS Photonics</i> , 2020, 7, 3499-3506.	3.2	29
23	Recent Advances on Neuromorphic Devices Based on Chalcogenide Phase-Change Materials. <i>Advanced Functional Materials</i> , 2020, 30, 2003419.	7.8	144
24	Unique 2D-3D Structure Transformations in Trichalcogenide CrSiTe <sub>3</sub> under High Pressure. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15600-15606.	1.5	15
25	Large Optical Anisotropy in Two-Dimensional Perovskite [CH(NH <sub>2</sub> ) <sub>2</sub> ] <sub>2</sub> [C(NH <sub>2</sub> ) <sub>3</sub> ]PbI <sub>4</sub> with Corrugated Inorganic Layers. <i>Nano Letters</i> , 2020, 20, 2339-2347.	4.5	40
26	Adaptive regulation of virulence genes by microRNA-like RNAs in <i>Valsa mali</i> . <i>New Phytologist</i> , 2020, 227, 899-913.	3.5	27
27	Stickier-Surface Sb <sub>2</sub> Te <sub>3</sub> Templates Enable Fast Memory Switching of Phase Change Material GeSb <sub>2</sub> Te <sub>4</sub> with Growth-Dominated Crystallization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33397-33407.	4.0	53
28	Synergic Effect in a New Electrocatalyst Ni <sub>2</sub> SbTe <sub>2</sub> for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3671-3680.	1.5	11
29	Polyamorphism in K <sub>2</sub> Sb <sub>8</sub> Se <sub>13</sub> for multi-level phase-change memory. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6364-6369.	2.7	14
30	Coexistence of Digital and Analog Resistive Switching With Low Operation Voltage in Oxygen-Gradient HfO <sub>x</sub> Memristors. <i>IEEE Electron Device Letters</i> , 2019, 40, 1068-1071.	2.2	32
31	Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge <sub>2</sub> P <sub>4</sub> S <sub>2</sub> and Ge <sub>2</sub> As <sub>4</sub> S <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21536-21545.	3.8	16
32	Understanding CrGeTe <sub>3</sub> : an abnormal phase change material with inverse resistance and density contrast. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9025-9030.	2.7	28
33	BaAs <sub>3</sub> : a narrow gap 2D semiconductor with vacancy-induced semiconductor-metal transition from first principles. <i>Journal of Materials Science</i> , 2019, 54, 12676-12687.	1.7	3
34	Ultra-Low Program Current and Multilevel Phase Change Memory for High-Density Storage Achieved by a Low-Current SET Pre-Operation. <i>IEEE Electron Device Letters</i> , 2019, 40, 1595-1598.	2.2	12
35	KTlO: a metal shrouded 2D semiconductor with high carrier mobility and tunable magnetism. <i>Nanoscale</i> , 2019, 11, 1131-1139.	2.8	50
36	Stabilizing amorphous Sb by adding alien seeds for durable memory materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4494-4500.	1.3	31

#	ARTICLE	IF	CITATIONS
37	Two-dimensional silicon chalcogenides with high carrier mobility for photocatalytic water splitting. <i>Journal of Materials Science</i> , 2019, 54, 11485-11496.	1.7	30
38	Pressure-Induced Structural Phase Transition and a Special Amorphization Phase of Two-Dimensional Ferromagnetic Semiconductor Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> . <i>Journal of Physical Chemistry C</i> , 2019, 123, 13885-13891.	1.5	35
39	Strong interface scattering induced low thermal conductivity in Bi-based GeTe/Bi <sub>2</sub> Te <sub>3</sub> superlattice-like materials. <i>RSC Advances</i> , 2019, 9, 9457-9461.	1.7	3
40	Local structure origin of ultrafast crystallization driven by high-fidelity octahedral clusters in amorphous Sc <sub>0.2</sub> Sb <sub>2</sub> Te <sub>3</sub> . <i>Applied Physics Letters</i> , 2019, 114, .	1.5	20
41	Pressure-induced electronic anomaly and multiband superconductivity in the doped topological insulator N <sub>b</sub> x <sub>2</sub> B <sub>2</sub> Te <sub>3</sub> . <i>Journal of Applied Physics</i> , 2019, 125, 114301.	1.1	7
42	Genome-edited skin epidermal stem cells protect mice from cocaine-seeking behaviour and cocaine overdose. <i>Nature Biomedical Engineering</i> , 2019, 3, 105-113.	11.6	20
43	The Structure of Phase-Change Chalcogenides and Their High-Pressure Behavior. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800506.	1.2	23
44	Dual-Layer Selector With Excellent Performance for Cross-Point Memory Applications. <i>IEEE Electron Device Letters</i> , 2018, 39, 496-499.	2.2	33
45	Evolution of short- and medium-range order in the melt-quenching amorphization of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> . <i>Journal of Materials Chemistry C</i> , 2018, 6, 5001-5011.	2.7	38
46	Gold fillings unravel the vacancy role in the phase transition of GeTe. <i>Applied Physics Letters</i> , 2018, 112, 071902.	1.5	10
47	Structural signature and transition dynamics of Sb <sub>2</sub> Te <sub>3</sub> melt upon fast cooling. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11768-11775.	1.3	33
48	GGA-1/2 self-energy correction for accurate band structure calculations: the case of resistive switching oxides. <i>Journal of Physics Communications</i> , 2018, 2, 105005.	0.5	70
49	Increasing the Atomic Packing Efficiency of Phase-Change Memory Glass to Reduce the Density Change upon Crystallization. <i>Advanced Electronic Materials</i> , 2018, 4, 1800127.	2.6	17
50	Pressure-induced isostructural phase transition and charge transfer in superconducting FeSe. <i>Journal of Alloys and Compounds</i> , 2018, 767, 811-819.	2.8	19
51	Structural disorder in the high-temperature cubic phase of GeTe. <i>RSC Advances</i> , 2018, 8, 17435-17442.	1.7	12
52	Variations of Local Motifs around Ge Atoms in Amorphous GeTe Ultrathin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1122-1128.	1.5	7
53	Impact of Pressure on the Resonant Bonding in Chalcogenides. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25447-25454.	1.5	25
54	Manipulation of dangling bonds of interfacial states coupled in GeTe-rich GeTe/Sb <sub>2</sub> Te <sub>3</sub> superlattices. <i>Scientific Reports</i> , 2017, 7, 17353.	1.6	3

#	ARTICLE	IF	CITATIONS
55	Color printing enabled by phase change materials on paper substrate. AIP Advances, 2017, 7, .	0.6	7
56	Reversing the Resistivity Contrast in the Phase-Change Memory Material GeSb <sub>2</sub> Te <sub>4</sub> Using High Pressure. Advanced Electronic Materials, 2015, 1, 1500240.	2.6	19
57	Disorder Control in Crystalline GeSb <sub>2</sub> Te <sub>4</sub> Using High Pressure. Advanced Science, 2015, 2, 1500117.	5.6	36
58	Dopamine D1 and D3 receptors mediate reconsolidation of cocaine memories in mouse models of drug self-administration. Neuroscience, 2014, 278, 154-164.	1.1	19
59	How fragility makes phase-change data storage robust: insights from ab initio simulations. Scientific Reports, 2014, 4, 6529.	1.6	66
60	Dopamine D3 receptors regulate reconsolidation of cocaine memory. Neuroscience, 2013, 241, 32-40.	1.1	19
61	Mechanisms of Li <sup>+</sup> transport in garnet-type cubic Li <sub>3</sub> La <sub>2</sub> Mn <sub>2</sub> O <sub>10</sub> using first-principle calculations. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> display="inline" <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > <math>Li^{+}</math> transport in garnet-type cubic Li <sub>3</sub> La <sub>2</sub> Mn <sub>2</sub> O <sub>10</sub> using first-principle calculations. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> display="inline" <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > </math>	1.1	141
62	Exploring Mechanisms Underlying Extinction of Cue-Elicited Cocaine Seeking. Current Neuropharmacology, 2011, 9, 8-11.	1.4	5
63	Dopamine D1 and N-methyl-d-aspartate receptors and extracellular signal-regulated kinase mediate neuronal morphological changes induced by repeated cocaine administration. Neuroscience, 2010, 168, 48-60.	1.1	57
64	Studies of the electronic and optical properties of BaMxO1 <sup>x</sup> (M=S, Se, Te) using first-principle calculations. Optics Communications, 2009, 282, 48-52.	1.0	3
65	c-Fos Is an Intracellular Regulator of Cocaine-Induced Long-Term Changes. Annals of the New York Academy of Sciences, 2008, 1139, 1-9.	1.8	17
66	Fos regulates neuronal activity in the nucleus accumbens. Neuroscience Letters, 2008, 448, 157-160.	1.0	6
67	Lack of Self-Administration of Cocaine in Dopamine D <sub>1</sub> Receptor Knock-Out Mice. Journal of Neuroscience, 2007, 27, 13140-13150.	1.7	155
68	Dopamine D <sub>1</sub> and D <sub>3</sub> receptors oppositely regulate NMDA- and cocaine-induced MAPK signaling via NMDA receptor phosphorylation. Journal of Neurochemistry, 2007, 103, 840-848.	2.1	54
69	Optical properties of cubic Ti <sub>3</sub> N <sub>4</sub> , Zr <sub>3</sub> N <sub>4</sub> , and Hf <sub>3</sub> N <sub>4</sub> . Applied Physics Letters, 2006, 89, 151908.	1.5	103
70	Opposite Regulation of Cocaine-Induced Intracellular Signaling and Gene Expression by Dopamine D1 and D3 Receptors. Annals of the New York Academy of Sciences, 2006, 1074, 1-12.	1.8	22
71	Theoretical investigation of the electronic and optical properties of pseudocubic Si <sub>3</sub> P <sub>4</sub> , Ge <sub>3</sub> P <sub>4</sub> and Sn <sub>3</sub> P <sub>4</sub> . Optics Express, 2006, 14, 710.	1.7	10
72	TGF- $\beta$ 2 inhibits AKT activation and FGF-2-induced corneal endothelial cell proliferation. Experimental Cell Research, 2006, 312, 3631-3640.	1.2	34

#	ARTICLE	IF	CITATIONS
73	c-Fos Facilitates the Acquisition and Extinction of Cocaine-Induced Persistent Changes. <i>Journal of Neuroscience</i> , 2006, 26, 13287-13296.	1.7	137
74	Repeated Cocaine Administration Induces Gene Expression Changes through the Dopamine D1 Receptors. <i>Neuropsychopharmacology</i> , 2005, 30, 1443-1454.	2.8	82
75	Cocaine-Induced Intracellular Signaling and Gene Expression Are Oppositely Regulated by the Dopamine D1 and D3 Receptors. <i>Journal of Neuroscience</i> , 2004, 24, 3344-3354.	1.7	202
76	Molecular genetic probing of dopamine receptors in drug addiction. <i>Current Opinion in Drug Discovery &amp; Development</i> , 2004, 7, 703-8.	1.9	4
77	The dopamine D1 receptor is a critical mediator for cocaine-induced gene expression. <i>Journal of Neurochemistry</i> , 2002, 82, 1453-1464.	2.1	113
78	c-fos regulates neuronal excitability and survival. <i>Nature Genetics</i> , 2002, 30, 416-420.	9.4	263
79	Toward a Molecular Understanding of Psychostimulant Actions Using Genetically Engineered Dopamine Receptor Knockout Mice as Model Systems. <i>Journal of Addictive Diseases</i> , 2001, 20, 7-18.	0.8	76
80	DNA fragmentation in apoptosis. <i>Cell Research</i> , 2000, 10, 205-211.	5.7	235
81	Probing the Role of the Dopamine D1 Receptor in Psychostimulant Addiction. <i>Annals of the New York Academy of Sciences</i> , 2000, 914, 13-21.	1.8	13
82	Behavioral responses to cocaine and amphetamine administration in mice lacking the dopamine D1 receptor. <i>Brain Research</i> , 2000, 852, 198-207.	1.1	142
83	Transforming activity of receptor tyrosine kinase Tyro3 is mediated, at least in part, by the PI3 kinase-signaling pathway. <i>Blood</i> , 2000, 95, 633-638.	0.6	52
84	Paradoxical Locomotor Behavior of Dopamine D1 Receptor Transgenic Mice. <i>Experimental Neurology</i> , 1999, 157, 169-179.	2.0	31
85	Unraveling Dopamine D3 Receptor Function in Response to Psychostimulants Using a Genetic Approach. <i>Annals of the New York Academy of Sciences</i> , 1998, 844, 27-39.	1.8	14
86	Dopamine D3 Receptor Mutant Mice Exhibit Increased Behavioral Sensitivity to Concurrent Stimulation of D1 and D2 Receptors. <i>Neuron</i> , 1997, 19, 837-848.	3.8	306
87	Elimination of cocaine-induced hyperactivity and dopamine-mediated neurophysiological effects in dopamine D1 receptor mutant mice. <i>Cell</i> , 1994, 79, 945-955.	13.5	323
88	Dopamine D1 receptor mutant mice are deficient in striatal expression of dynorphin and in dopamine-mediated behavioral responses. <i>Cell</i> , 1994, 79, 729-742.	13.5	474
89	Unraveling the structural and bonding nature of antimony sesquichalcogenide glass for electronic and photonic applications. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	15
90	A Genetically Modified Skin Graft for Treating Alcohol Use Disorder and/or Polysubstance Abuse With Cocaine. <i>Advances in Drug and Alcohol Research</i> , 0, 11, .	2.5	0