

Ming Xu

List of Publications by Year in descending order

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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	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
2	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
3	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
4	c-fos regulates neuronal excitability and survival. <i>Nature Genetics</i> , 2002, 30, 416-420.	9.4	263
5	DNA fragmentation in apoptosis. <i>Cell Research</i> , 2000, 10, 205-211.	5.7	235
6	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
7	Lack of Self-Administration of Cocaine in Dopamine D ₁ Receptor Knock-Out Mice. <i>Journal of Neuroscience</i> , 2007, 27, 13140-13150.	1.7	155
8	Recent Advances on Neuromorphic Devices Based on Chalcogenide Phase-Change Materials. <i>Advanced Functional Materials</i> , 2020, 30, 2003419.	7.8	144
9	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
10	Mechanisms of Li ⁺ transport in garnet-type cubic Li ₃ La _x Mg _{1-x} Al ₂ O ₆ . <i>Journal of Solid State Chemistry</i> , 1998, 15, 205-211.	1.1	141
11	c-Fos Facilitates the Acquisition and Extinction of Cocaine-Induced Persistent Changes. <i>Journal of Neuroscience</i> , 2006, 26, 13287-13296.	1.7	137
12	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
13	Optical properties of cubic Ti3N4, Zr3N4, and Hf3N4. <i>Applied Physics Letters</i> , 2006, 89, 151908.	1.5	103
14	Repeated Cocaine Administration Induces Gene Expression Changes through the Dopamine D1 Receptors. <i>Neuropsychopharmacology</i> , 2005, 30, 1443-1454.	2.8	82
15	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
16	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
17	How fragility makes phase-change data storage robust: insights from ab initio simulations. <i>Scientific Reports</i> , 2014, 4, 6529.	1.6	66
18	Metavalent Bonding in Crystalline Solids: How Does It Collapse?. <i>Advanced Materials</i> , 2021, 33, e2102356.	11.1	65

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19	Dopamine D1 and N-methyl-d-aspartate receptors and extracellular signal-regulated kinase mediate neuronal morphological changes induced by repeated cocaine administration. <i>Neuroscience</i> , 2010, 168, 48-60.	1.1	57
20	Dopamine D ₁ and D ₃ receptors oppositely regulate NMDA- and cocaine-induced MAPK signaling via NMDA receptor phosphorylation. <i>Journal of Neurochemistry</i> , 2007, 103, 840-848.	2.1	54
21	Stickier Surface Sb ₂ Te ₃ Templates Enable Fast Memory Switching of Phase Change Material GeSb ₂ Te ₄ with Growth-Dominated Crystallization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33397-33407.	4.0	53
22	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
23	KTIO: a metal shrouded 2D semiconductor with high carrier mobility and tunable magnetism. <i>Nanoscale</i> , 2019, 11, 1131-1139.	2.8	50
24	Low-Power Memristive Logic Device Enabled by Controllable Oxidation of 2D HfSe ₂ for In-Memory Computing. <i>Advanced Science</i> , 2021, 8, e2005038.	5.6	47
25	Large Optical Anisotropy in Two-Dimensional Perovskite [CH(NH ₂) ₂] ₂ [C(NH ₂) ₃]PbI ₄ with Corrugated Inorganic Layers. <i>Nano Letters</i> , 2020, 20, 2339-2347.	4.5	40
26	Evolution of short- and medium-range order in the melt-quenching amorphization of Ge ₂ Sb ₂ Te ₅ . <i>Journal of Materials Chemistry C</i> , 2018, 6, 5001-5011.	2.7	38
27	Disorder Control in Crystalline GeSb ₂ Te ₄ Using High Pressure. <i>Advanced Science</i> , 2015, 2, 1500117.	5.6	36
28	Pressure-Induced Structural Phase Transition and a Special Amorphization Phase of Two-Dimensional Ferromagnetic Semiconductor Cr ₂ Ge ₂ Te ₆ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 13885-13891.	1.5	35
29	TGF-β ₂ inhibits AKT activation and FGF-2-induced corneal endothelial cell proliferation. <i>Experimental Cell Research</i> , 2006, 312, 3631-3640.	1.2	34
30	Deep machine learning unravels the structural origin of mid-gap states in chalcogenide glass for high-density memory integration. <i>Information Materials</i> , 2022, 4, .	8.5	34
31	Dual-Layer Selector With Excellent Performance for Cross-Point Memory Applications. <i>IEEE Electron Device Letters</i> , 2018, 39, 496-499.	2.2	33
32	Structural signature and transition dynamics of Sb ₂ Te ₃ melt upon fast cooling. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11768-11775.	1.3	33
33	Coexistence of Digital and Analog Resistive Switching With Low Operation Voltage in Oxygen-Gradient HfO _x Memristors. <i>IEEE Electron Device Letters</i> , 2019, 40, 1068-1071.	2.2	32
34	Paradoxical Locomotor Behavior of Dopamine D1 Receptor Transgenic Mice. <i>Experimental Neurology</i> , 1999, 157, 169-179.	2.0	31
35	Stabilizing amorphous Sb by adding alien seeds for durable memory materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4494-4500.	1.3	31
36	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

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37	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. ACS Photonics, 2020, 7, 3499-3506.	3.2	29
38	Understanding CrGeTe ₃ : an abnormal phase change material with inverse resistance and density contrast. Journal of Materials Chemistry C, 2019, 7, 9025-9030.	2.7	28
39	Resistance Drift Suppression Utilizing GeTe/Sb ₂ Te ₃ Superlattice-Like Phase-Change Materials. Advanced Electronic Materials, 2020, 6, 1900781.	2.6	27
40	Adaptive regulation of virulence genes by microRNA-like RNAs in <i>Valsa mali</i> . New Phytologist, 2020, 227, 899-913.	3.5	27
41	Designing Conductive-Bridge Phase-Change Memory to Enable Ultralow Programming Power. Advanced Science, 2022, 9, e2103478.	5.6	26
42	Impact of Pressure on the Resonant Bonding in Chalcogenides. Journal of Physical Chemistry C, 2017, 121, 25447-25454.	1.5	25
43	The Structure of Phase-Change Chalcogenides and Their High-Pressure Behavior. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800506.	1.2	23
44	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
45	Local structure origin of ultrafast crystallization driven by high-fidelity octahedral clusters in amorphous Sc _{0.2} Sb ₂ Te ₃ . Applied Physics Letters, 2019, 114, .	1.5	20
46	Genome-edited skin epidermal stem cells protect mice from cocaine-seeking behaviour and cocaine overdose. Nature Biomedical Engineering, 2019, 3, 105-113.	11.6	20
47	Dopamine D3 receptors regulate reconsolidation of cocaine memory. Neuroscience, 2013, 241, 32-40.	1.1	19
48	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
49	Reversing the Resistivity Contrast in the Phase-Change Memory Material GeSb ₂ Te ₄ Using High Pressure. Advanced Electronic Materials, 2015, 1, 1500240.	2.6	19
50	Pressure-induced isostructural phase transition and charge transfer in superconducting FeSe. Journal of Alloys and Compounds, 2018, 767, 811-819.	2.8	19
51	A fungal microRNA-like RNA subverts host immunity and facilitates pathogen infection by silencing two host receptor-like kinase genes. New Phytologist, 2022, 233, 2503-2519.	3.5	19
52	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
53	Increasing the Atomic Packing Efficiency of Phase-Change Memory Glass to Reduce the Density Change upon Crystallization. Advanced Electronic Materials, 2018, 4, 1800127.	2.6	17
54	Suppressed resistance drift from short range order of amorphous GeTe ultrathin films. Applied Physics Letters, 2020, 117, .	1.5	17

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55	How arsenic makes amorphous GeSe a robust chalcogenide glass for advanced memory integration. Scripta Materialia, 2022, 218, 114834.	2.6	17
56	Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge ₂ P ₄ S ₂ and Ge ₂ As ₄ S ₂ . International Journal of Hydrogen Energy, 2019, 44, 21536-21545.	3.8	16
57	Three Resistance States Achieved by Nanocrystalline Decomposition in Ge ₂ Ga ₂ Sb Compound for Multilevel Phase Change Memory. Advanced Electronic Materials, 2021, 7, 2100164.	2.6	16
58	Unique 2D→3D Structure Transformations in Trichalcogenide CrSiTe ₃ under High Pressure. Journal of Physical Chemistry C, 2020, 124, 15600-15606.	1.5	15
59	Unraveling the structural and bonding nature of antimony sesquichalcogenide glass for electronic and photonic applications. Journal of Materials Chemistry C, 0, , .	2.7	15
60	Structure, bonding nature and transition dynamics of amorphous Te. Scripta Materialia, 2021, 202, 114011.	2.6	15
61	Unraveling Dopamine D ₃ Receptor Function in Response to Psychostimulants Using a Genetic Approach. Annals of the New York Academy of Sciences, 1998, 844, 27-39.	1.8	14
62	Raman spectroscopy and lattice dynamical stability study of 2D ferromagnetic semiconductor Cr ₂ Ge ₂ Te ₆ under high pressure. Journal of Alloys and Compounds, 2020, 819, 153368.	2.8	14
63	Polyamorphism in K ₂ Sb ₈ Se ₁₃ for multi-level phase-change memory. Journal of Materials Chemistry C, 2020, 8, 6364-6369.	2.7	14
64	Probing the Role of the Dopamine D ₁ Receptor in Psychostimulant Addiction. Annals of the New York Academy of Sciences, 2000, 914, 13-21.	1.8	13
65	Superconducting Phase Induced by a Local Structure Transition in Amorphous Sb_2Te_3 under High Pressure. Physical Review Letters, 2021, 127, 127002.	2.9	13
66	Ultrafast crystallization mechanism of amorphous Ge ₁₅ Sb ₈₅ unraveled by pressure-driven simulations. Acta Materialia, 2021, 216, 117123.	3.8	13
67	Structural disorder in the high-temperature cubic phase of GeTe. RSC Advances, 2018, 8, 17435-17442.	1.7	12
68	Ultra-Low Program Current and Multilevel Phase Change Memory for High-Density Storage Achieved by a Low-Current SET Pre-Operation. IEEE Electron Device Letters, 2019, 40, 1595-1598.	2.2	12
69	Structural features of chalcogenide glass SiTe: An ovonic threshold switching material. APL Materials, 2021, 9, .	2.2	12
70	Artificial Synapses Based on WSe ₂ Homojunction via Vacancy Migration. ACS Applied Materials & Interfaces, 2022, 14, 21141-21149.	4.0	12
71	Synergic Effect in a New Electrocatalyst Ni ₂ SbTe ₂ for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2020, 124, 3671-3680.	1.5	11
72	Theoretical investigation of the electronic and optical properties of pseudocubic Si ₃ P ₄ , Ge ₃ P ₄ and Sn ₃ P ₄ . Optics Express, 2006, 14, 710.	1.7	10

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73	Gold fillings unravel the vacancy role in the phase transition of GeTe. Applied Physics Letters, 2018, 112, 071902.	1.5	10
74	An autophagy-related protein Becn2 regulates cocaine reward behaviors in the dopaminergic system. Science Advances, 2021, 7, .	4.7	9
75	Ultrafast and stable phase transition realized in MoTe ₂ -based memristive devices. Materials Horizons, 2022, 9, 1036-1044.	6.4	9
76	Variations of Local Motifs around Ge Atoms in Amorphous GeTe Ultrathin Films. Journal of Physical Chemistry C, 2017, 121, 1122-1128.	1.5	7
77	Color printing enabled by phase change materials on paper substrate. AIP Advances, 2017, 7, .	0.6	7
78	Pressure-induced electronic anomaly and multiband superconductivity in the doped topological insulator $Nb_xBi_{2-x}Sb_2$.	1.1	7
79	Characterizations of electronic and optical properties of Sb-based phase-change material stabilized by alloying Cr. Applied Physics Letters, 2021, 118, .	1.5	7
80	Fos regulates neuronal activity in the nucleus accumbens. Neuroscience Letters, 2008, 448, 157-160.	1.0	6
81	Neural network potential for Zn-Rh system by machine learning. Journal of Physics Condensed Matter, 2022, 34, 075402.	0.7	6
82	Exploring Mechanisms Underlying Extinction of Cue-Elicited Cocaine Seeking. Current Neuropharmacology, 2011, 9, 8-11.	1.4	5
83	Reducing alcohol and/or cocaine-induced reward and toxicity via an epidermal stem cell-based gene delivery platform. Molecular Psychiatry, 2021, 26, 5266-5276.	4.1	5
84	Molecular genetic probing of dopamine receptors in drug addiction. Current Opinion in Drug Discovery & Development, 2004, 7, 703-8.	1.9	4
85	Studies of the electronic and optical properties of BaM _x O _{1-x} (M=S, Se, Te) using first-principle calculations. Optics Communications, 2009, 282, 48-52.	1.0	3
86	Manipulation of dangling bonds of interfacial states coupled in GeTe-rich GeTe/Sb ₂ Te ₃ superlattices. Scientific Reports, 2017, 7, 17353.	1.6	3
87	BaAs ₃ : a narrow gap 2D semiconductor with vacancy-induced semiconductor-metal transition from first principles. Journal of Materials Science, 2019, 54, 12676-12687.	1.7	3
88	Strong interface scattering induced low thermal conductivity in Bi-based GeTe/Bi ₂ Te ₃ superlattice-like materials. RSC Advances, 2019, 9, 9457-9461.	1.7	3
89	10 MA cm ⁻² current density in nanoscale conductive bridge threshold switching selector via densely localized cation sources. Journal of Materials Chemistry C, 2021, 9, 14799-14807.	2.7	3
90	A Genetically Modified Skin Graft for Treating Alcohol Use Disorder and/or Polysubstance Abuse With Cocaine. Advances in Drug and Alcohol Research, 0, 11, .	2.5	0