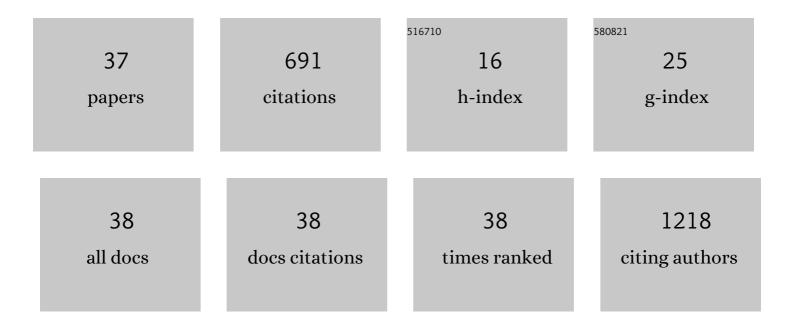
Yidong Xia

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effect of thermal treatment induced inter-diffusion at the interfaces on the charge trapping performance of HfO2/Al2O3 nanolaminate-based memory devices. Journal of Applied Physics, 2013, 114, .	2.5	54
2	Synthesis of Easily Transferred 2D Layered Bil ₃ Nanoplates for Flexible Visible-Light Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 21527-21533.	8.0	50
3	Giant electromechanical strain response in leadâ€free SrTiO ₃ â€doped (Bi _{0.5} Na _{0.5} TiO ₃ –BaTiO ₃)–LiNbO ₃ piezoelectric ceramics. Journal of the American Ceramic Society, 2017, 100, 4670-4679.	3.8	46
4	Ga 2 Te 3 phase change material for low-power phase change memory application. Applied Physics Letters, 2010, 97, .	3.3	39
5	Strain tunable magnetism in SnX2 (X = S, Se) monolayers by hole doping. Scientific Reports, 2016, 6, 39218.	3.3	36
6	MoS ₂ -based Charge-trapping synaptic device with electrical and optical modulated conductance. Nanophotonics, 2020, 9, 2475-2486.	6.0	36
7	Quantum spin Hall insulator phase in monolayer WTe2 by uniaxial strain. AIP Advances, 2016, 6, .	1.3	31
8	Large-sized PbI 2 single crystal grown by co-solvent method for visible-light photo-detector application. Materials Letters, 2017, 193, 101-104.	2.6	30
9	Electrical properties of chemical-solution-derived Bi3.54Nd0.46Ti3O12 ferroelectric thin films. Journal of Applied Physics, 2003, 94, 7376-7378.	2.5	26
10	ZnO nanowire optoelectronic synapse for neuromorphic computing. Nanotechnology, 2022, 33, 065205.	2.6	26
11	Electrical field induced precipitation reaction and percolation in Ag30Ge17Se53 amorphous electrolyte films. Applied Physics Letters, 2009, 94, 162112.	3.3	25
12	Siliconâ€Based Hybrid Optoelectronic Devices with Synaptic Plasticity and Stateful Photoresponse. Advanced Electronic Materials, 2018, 4, 1800242.	5.1	21
13	High-intensity compact ultrasound assisted synthesis of porous N-doped graphene thin microsheets with well-dispersed near-spherical Ni2P nanoflowers for energy storage. Chemical Engineering Journal, 2019, 361, 387-397.	12.7	21
14	Memristive learning and memory functions in polyvinyl alcohol polymer memristors. AIP Advances, 2014, 4, .	1.3	20
15	Synthesis of Pbl ₂ nanowires for high sensitivity photodetectors. RSC Advances, 2016, 6, 59445-59449.	3.6	20
16	Highâ€Performance Visibleâ€Light Photodetectors built on 2Dâ€Nanoplateâ€Assembled Largeâ€Scale Bil ₃ Films. Advanced Electronic Materials, 2019, 5, 1900159.	5.1	20
17	An investigation into ultra-thin pseudobinary oxide (TiO2)x(Al2O3)1-x films as high-k gate dielectrics. Applied Physics A: Materials Science and Processing, 2007, 90, 379-384.	2.3	17
18	Binary semiconductor In2Te3 for the application of phase-change memory device. Journal of Materials Science, 2010, 45, 3569-3574.	3.7	16

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19	The chemically driven phase transformation in a memristive abacus capable of calculating decimal fractions. Scientific Reports, 2013, 3, 1230.	3.3	16
20	Enhanced memory performance by tailoring the microstructural evolution of (ZrO2)0.6(SiO2)0.4 charge trapping layer in the nanocrystallites-based charge trap flash memory cells. Applied Physics A: Materials Science and Processing, 2012, 108, 217-222.	2.3	15
21	Light-controlled stateful logic operations using optoelectronic switches based on p-Si/HfO2 heterostructures. Applied Physics Letters, 2018, 112, .	3.3	14
22	High Visibleâ€Lightâ€Stimulated Plasticity in Optoelectronic Synaptic Transistors for Irradiation Historyâ€Dependent Learning. Advanced Electronic Materials, 2020, 6, 1901255.	5.1	13
23	Robust Dirac point in honeycomb-structure nanoribbons with zigzag edges. Physical Review B, 2010, 81,	3.2	12
24	Half-metallicity in graphitic C3 N4 nanoribbons: An ab initio study. Physica Status Solidi (B): Basic Research, 2014, 251, 1386-1392.	1.5	12
25	Studies of two distinct types of (Ba,Sr)TiO3â^•Pt interfaces. Applied Physics Letters, 2008, 92, 102906.	3.3	11
26	Highâ€Performance Pentaceneâ€Based Fieldâ€Effect Transistor Memory Using the Electrets of Polymer Blends. Advanced Electronic Materials, 2022, 8, .	5.1	10
27	Effects of applied electric field during postannealing on the tunable properties of (Ba,Sr)TiO3 thin films. Applied Physics Letters, 2005, 87, 052902.	3.3	9
28	Encoding, training and retrieval in ferroelectric tunnel junctions. Scientific Reports, 2016, 6, 27022.	3.3	8
29	Enhancement of resistive switching ratio induced by competing interfacial oxygen diffusion in tantalum oxide based memories with metal nitride electrode. Applied Physics Letters, 2018, 113, .	3.3	8
30	Continuously-tuned tunneling behaviors of ferroelectric tunnel junctions based on BaTiO3/La0.67Sr0.33MnO3 heterostructure. AIP Advances, 2014, 4, .	1.3	7
31	Raman shift, Néel temperature, and optical band gap of NiO nanoparticles. Physical Chemistry Chemical Physics, 2020, 22, 5735-5739.	2.8	7
32	Large electromechanical strain and electrostrictive effect in (1 â^' x)(Bi0.5Na0.5TiO3–SrTiO3)–xLiNl ternary lead-free piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 200-211.	bO3 2.2	5
33	The roles of the dielectric constant and the relative level of conduction band of high-k composite with Si in improving the memory performance of charge-trapping memory devices. AIP Advances, 2014, 4, 117110.	1.3	4
34	Al2O3–Cu2O composite charge-trapping nonvolatile memory. Journal of Materials Science: Materials in Electronics, 2017, 28, 928-933.	2.2	3
35	UV EMISSION OF TETRAGONAL ZrO ₂ NANOCRYSTALS EMBEDDED IN ZrSiO ₄ AMORPHOUS MATRIX. Modern Physics Letters B, 2010, 24, 2477-2483.	1.9	2
36	Heating power lowering by downscaling the cell dimensions in nanoscale filamentary resistive switching devices. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	1

#	Article	IF	CITATIONS
37	Piezoelectricity in two-dimensional covalent organic frameworks. Journal of Applied Physics, 2017, 121, 225112.	2.5	0