

# Gu Xu

## List of Publications by Year in descending order

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43  
papers

1,904  
citations

430442

18  
h-index

344852

36  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation Mechanism of Small Molecule-Based Organic Light-Emitting Devices. <i>Science</i> , 1999, 283, 1900-1902.	6.0	798
2	Humidity-induced crystallization of tris (8-hydroxyquinoline) aluminum layers in organic light-emitting devices. <i>Applied Physics Letters</i> , 1998, 72, 756-758.	1.5	217
3	Synthesis and Thin-Film Transistor Performance of Poly(4,8-didodecylbenzo[1,2-b:4,5-b <sup>â€</sup> ]dithiophene). <i>Chemistry of Materials</i> , 2006, 18, 3237-3241.	3.2	130
4	Degradation mechanisms in organic solar cells: Localized moisture encroachment and cathode reaction. <i>Solar Energy Materials and Solar Cells</i> , 2012, 104, 1-6.	3.0	93
5	Moisture-absorption, dielectric relaxation, and thermal conductivity studies of polymer composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 2259-2265.	2.4	66
6	Effect of Additives on Self-Assembling Behavior of Nafion in Aqueous Media. <i>Macromolecules</i> , 2001, 34, 7783-7788.	2.2	63
7	Electron-Induced Quenching of Excitons in Luminescent Materials. <i>Chemistry of Materials</i> , 2007, 19, 2288-2291.	3.2	58
8	Promoting Thermodynamic and Kinetic Stabilities of FA-based Perovskite by an in Situ Bilayer Structure. <i>Nano Letters</i> , 2020, 20, 3864-3871.	4.5	49
9	Low cost acetone sensors with selectivity over water vapor based on screen printed TiO <sub>2</sub> nanoparticles. <i>Analytical Methods</i> , 2013, 5, 3709.	1.3	44
10	Pyrrrolidinium lead iodide from crystallography: a new perovskite with low bandgap and good water resistance. <i>Chemical Communications</i> , 2019, 55, 3251-3253.	2.2	37
11	Reversing Organicâ€™Inorganic Hybrid Perovskite Degradation in Water via pH and Hydrogen Bonds. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7245-7250.	2.1	34
12	Electric-field-induced fluorescence quenching in dye-doped tris(8-hydroxyquinoline) aluminum layers. <i>Applied Physics Letters</i> , 2006, 89, 103505.	1.5	30
13	Degradation mechanisms in organic light-emitting devices: Metal migration model versus unstable tris(8-hydroxyquinoline) aluminum cationic model. <i>Journal of Applied Physics</i> , 2007, 101, 034510.	1.1	28
14	Organic photovoltaic power conversion efficiency improved by AC electric field alignment during fabrication. <i>Applied Physics Letters</i> , 2011, 99, 053305.	1.5	23
15	Hysteresis and Instability Predicted in Moisture Degradation of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48882-48889.	4.0	23
16	Pyrrrolidinium containing perovskites with thermal stability and water resistance for photovoltaics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11104-11108.	2.7	19
17	A Water-Stable Organic-Inorganic Hybrid Perovskite for Solar Cells by Inorganic Passivation. <i>Crystals</i> , 2019, 9, 83.	1.0	19
18	A KMnF <sub>3</sub> perovskite structure with improved stability, low bandgap and high transport properties. <i>Ceramics International</i> , 2019, 45, 64-68.	2.3	19

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19	Non-invasive blood glucose measurement of 95% certainty by pressure regulated Mid-IR. <i>Talanta</i> , 2019, 197, 211-217.	2.9	18
20	Phase and Texture of Solution-Processed Copper Phthalocyanine Thin Films Investigated by Two-Dimensional Grazing Incidence X-Ray Diffraction. <i>Crystals</i> , 2011, 1, 112-119.	1.0	16
21	Correlation between electroluminescence efficiency and stability in organic light-emitting devices under pulsed driving conditions. <i>Journal of Applied Physics</i> , 2006, 99, 054508.	1.1	14
22	Moisture-Stable FAPbI <sub>3</sub> Perovskite Achieved by Atomic Structure Negotiation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5332-5338.	2.1	14
23	X-Ray Scattering Study of New Perfluorinated Ionomers. <i>Polymer Journal</i> , 1993, 25, 397-400.	1.3	11
24	Improving the stability of organic light-emitting devices by using a hole-injection-tunable-anode-buffer-layer. <i>Journal of Applied Physics</i> , 2007, 101, 054512.	1.1	10
25	Multiple-interface tracking of degradation process in organic photovoltaics. <i>AIP Advances</i> , 2013, 3, .	0.6	10
26	Magnetic-field-induced energy bandgap reduction of perovskite KMnF <sub>3</sub> . <i>Journal of Materials Chemistry C</i> , 2020, 8, 4164-4168.	2.7	9
27	The inverse correlation between series resistance and parallel resistance of small molecule organic solar cells. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 323-326.	1.8	7
28	An Environmentally Stable Organic-Inorganic Hybrid Perovskite Containing Py Cation with Low Trap-State Density. <i>Crystals</i> , 2020, 10, 272.	1.0	7
29	Non-Arrhenius temperature dependence of conductivities in amorphous systems. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1993, 68, 285-289.	0.6	6
30	Achieving Nonenzymatic Blood Glucose Sensing by Uprooting Saturation. <i>Analytical Chemistry</i> , 2020, 92, 10777-10782.	3.2	6
31	Unexpected Selectivity of UV Light Activated Metal-Oxide-Semiconductor Gas Sensors by Two Different Redox Processes. <i>Journal of Sensors</i> , 2016, 2016, 1-6.	0.6	5
32	Multi-projection of unequal dimension optimal transport theory for Generative Adversary Networks. <i>Neural Networks</i> , 2020, 128, 107-125.	3.3	5
33	Dielectric properties of novel poly(aryl prehnitimide)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 731-736.	2.4	4
34	Dual nanostructures in poly (3-hexylthiophene) based organic photovoltaics under alternative current electric field. <i>Thin Solid Films</i> , 2012, 520, 5770-5774.	0.8	4
35	Ethylammonium Lead Iodide Formation in MAPbI <sub>3</sub> Precursor Solutions by DMF Decomposition and Organic Cation Exchange Reaction. <i>Crystals</i> , 2020, 10, 162.	1.0	4
36	Long-Term Degradation Mechanism of Organic Light Emitting Devices Based on Small Molecules. <i>Materials Research Society Symposia Proceedings</i> , 1999, 558, 507.	0.1	3

#	ARTICLE	IF	CITATIONS
37	INVESTIGATING STRUCTURAL AND OPTICAL CHARACTERISTICS OF III-NITRIDE SEMICONDUCTOR MATERIALS. , 2017, , 209-261.		1
38	Recover the phases from intensity data of x-ray diffraction. Applied Physics Letters, 1998, 73, 909-911.	1.5	0
39	Hydrogen Storage Capacity Improvement of Nanostructured Materials. Materials Research Society Symposia Proceedings, 2001, 704, 851.	0.1	0
40	The application of lead-free solder to optical fiber packaging. Journal of Electronic Materials, 2004, 33, 1440-1444.	1.0	0
41	Magnified hard x-ray image in one dimension. Applied Physics Letters, 2010, 96, 261907.	1.5	0
42	Non-patchy strategy for inter-atomic distances from Extended X-ray Absorption Fine Structure. Scientific Reports, 2017, 7, 42143.	1.6	0
43	Binding Strength and Hydrogen Bond Numbers between COVID-19 RBD and HVR of Antibody. Crystals, 2021, 11, 997.	1.0	0