

Gyu-Weon Hwang

List of Publications by Year in descending order

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33
papers

1,619
citations

535685

17
h-index

488211

31
g-index

33
all docs

33
docs citations

33
times ranked

3433
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting ligand-dependent nanocrystal shapes of InP quantum dots and their electronic structures. <i>Applied Surface Science</i> , 2022, 578, 151972.	3.1	5
2	Three-Terminal Ovonic Threshold Switch (3T-OTS) with Tunable Threshold Voltage for Versatile Artificial Sensory Neurons. <i>Nano Letters</i> , 2022, 22, 733-739.	4.5	10
3	Emulating the short-term plasticity of a biological synapse with a ruthenium complex-based organic mixed ionic-electronic conductor. <i>Materials Advances</i> , 2022, 3, 2827-2837.	2.6	6
4	A Poisson Process Generator Based on Multiple Thermal Noise Amplifiers for Parallel Stochastic Simulation of Biochemical Reactions. <i>Electronics (Switzerland)</i> , 2022, 11, 1039.	1.8	1
5	SWIR imaging using PbS QD photodiode array sensors. <i>Optics Express</i> , 2022, 30, 20659.	1.7	0
6	Precise Control of the Oxidation State of PbS Quantum Dots Using Rapid Thermal Annealing for Infrared Photodetectors. <i>ACS Applied Nano Materials</i> , 2021, 4, 1-6.	2.4	12
7	Novel nano-plasmonic sensing platform based on vertical conductive bridge. <i>Scientific Reports</i> , 2021, 11, 3184.	1.6	1
8	Design of mid-infrared filter array based on plasmonic metal nanodiscs array and its application to on-chip spectrometer. <i>Scientific Reports</i> , 2021, 11, 12218.	1.6	12
9	Realization of an Artificial Visual Nervous System using an Integrated Optoelectronic Device Array. <i>Advanced Materials</i> , 2021, 33, e2105485.	11.1	33
10	Realization of an Artificial Visual Nervous System using an Integrated Optoelectronic Device Array (<i>Adv. Mater.</i> 51/2021). <i>Advanced Materials</i> , 2021, 33, .	11.1	3
11	Controllable modulation of precursor reactivity using chemical additives for systematic synthesis of high-quality quantum dots. <i>Nature Communications</i> , 2020, 11, 5748.	5.8	19
12	Zero-Dimensional PbS Quantum Dot-InGaZnO Film Heterostructure for Short-Wave Infrared Flat-Panel Imager. <i>ACS Photonics</i> , 2020, 7, 1932-1941.	3.2	26
13	Optimization of tunable guided-mode resonance filter based on refractive index modulation of graphene. <i>Scientific Reports</i> , 2019, 9, 19951.	1.6	14
14	Improving Open-circuit Voltage in PbS-based QDPVs Using Different Pb Precursors. <i>Journal of the Korean Physical Society</i> , 2019, 75, 985-989.	0.3	2
15	Enhanced resolution of a surface plasmon resonance sensor detecting C-reactive protein via a bimetallic waveguide-coupled mode approach. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 311-317.	4.0	28
16	Next-generation in vivo optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	490
17	Enhanced Photocurrent in PbS Quantum Dot Photovoltaics via ZnO Nanowires and Band Alignment Engineering. <i>Advanced Energy Materials</i> , 2016, 6, 1600848.	10.2	66
18	Photovoltaic Performance of PbS Quantum Dots Treated with Metal Salts. <i>ACS Nano</i> , 2016, 10, 3382-3388.	7.3	75

#	ARTICLE	IF	CITATIONS
19	A path to practical Solar Pumped Lasers via Radiative Energy Transfer. <i>Scientific Reports</i> , 2015, 5, 14758.	1.6	35
20	Identifying and Eliminating Emissive Sub-bandgap States in Thin Films of PbS Nanocrystals. <i>Advanced Materials</i> , 2015, 27, 4481-4486.	11.1	77
21	High-Performance Shortwave-Infrared Light-Emitting Devices Using Core-Shell (PbS-CdS) Colloidal Quantum Dots. <i>Advanced Materials</i> , 2015, 27, 1437-1442.	11.1	167
22	Open-Circuit Voltage Deficit, Radiative Sub-Bandgap States, and Prospects in Quantum Dot Solar Cells. <i>Nano Letters</i> , 2015, 15, 3286-3294.	4.5	223
23	Insights into the reactive ion etching mechanism of nanocrystalline diamond films as a function of film microstructure and the presence of fluorine gas. <i>Journal of Applied Physics</i> , 2010, 107, 044313.	1.1	3
24	Control of abnormal grain inclusions in the nanocrystalline diamond film deposited by hot filament CVD. <i>Diamond and Related Materials</i> , 2009, 18, 1369-1374.	1.8	18
25	Atomic Layer Deposition of Ru Thin Films Using 2,4-(Dimethylpentadienyl)(ethylcyclopentadienyl)Ru by a Liquid Injection System. <i>Journal of the Electrochemical Society</i> , 2007, 154, D95.	1.3	88
26	Atomic Layer Deposition of $\text{Bi}_{1-x}\text{Ti}_x\text{Si}_y\text{O}_z$ Thin Films Using H_2O Oxidant and Their Characteristics Depending on Si Content. <i>Journal of the Electrochemical Society</i> , 2007, 154, H915.	1.3	3
27	Atomic Layer Deposition and Electrical Properties of PbTiO_3 Thin Films Using Metallorganic Precursors and H_2O . <i>Journal of the Electrochemical Society</i> , 2007, 154, G69.	1.3	28
28	Transformation of the Crystalline Structure of an ALD TiO_2 Film on a Ru Electrode by O_3 Pretreatment. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, F5.	2.2	66
29	Characterization of Pb_xPt_y Alloy Formation on a Pt Substrate during Liquid-Delivery MOCVD of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ Thin Films. <i>Journal of the Electrochemical Society</i> , 2006, 153, F81.	1.3	7
30	Characteristics of Polycrystalline SrRuO_3 Thin-Film Bottom Electrodes for Metallorganic Chemical-Vapor-Deposited $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ Thin Films. <i>Journal of the Electrochemical Society</i> , 2006, 153, C777.	1.3	8
31	Characteristics of Amorphous $\text{Bi}_2\text{Ti}_2\text{O}_7$ Thin Films Grown by Atomic Layer Deposition for Memory Capacitor Applications. <i>Journal of the Electrochemical Society</i> , 2006, 153, F20.	1.3	29
32	Growth Characteristics of Atomic Layer Deposited TiO_2 Thin Films on Ru and Si Electrodes for Memory Capacitor Applications. <i>Journal of the Electrochemical Society</i> , 2005, 152, C552.	1.3	64
33	Electrochemical modulation of trap states in PbS QDs and their electrical characterization. <i>Journal of the Korean Physical Society</i> , 0, , .	0.3	0