

# Hyung Koun Cho

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

312 papers	5,288 citations	36 h-index	56 g-index
331 ext. papers	5,813 ext. citations	3.8 avg, IF	5.61 L-index

#	Paper	IF	Citations
312	Design of hydrangea-type Co/Mo bimetal MOFs and MOF-derived Co/Mo <sub>2</sub> C embedded carbon composites for highly efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 134815	14.7	5
311	A synergistic strategy to remove hazardous water pollutants by mimicking burdock flower morphology structures of iron oxide phases. <i>Chemosphere</i> , <b>2022</b> , 286, 131789	8.4	
310	Atomic-scale platinum deposition on photocathodes by multiple redox cycles under illumination for enhanced solar-to-hydrogen energy conversion. <i>Journal of Power Sources</i> , <b>2022</b> , 533, 231410	8.9	1
309	Area-Selective Chemical Doping on Solution-Processed MoS Thin-Film for Multi-Valued Logic Gates. <i>Nano Letters</i> , <b>2021</b> ,	11.5	5
308	Optimal n-Type Al-Doped ZnO Overlayers for Charge Transport Enhancement in p-Type CuO Photocathodes. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	1
307	Compositional Engineering of Hf-Doped InZnSnO Films for High-Performance and Stability Amorphous Oxide Semiconductor Thin Film Transistors. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001216	6.4	8
306	Like FeOOH Nanoswords Activated by Ni Foam and Encapsulated by rGO toward High Current Densities, Durability, and Efficient Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 18772-18783	9.5	2
305	High-Performance Non-Volatile InGaZnO Based Flash Memory Device Embedded with a Monolayer Au Nanoparticles. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
304	Bundle-Type Columnar Cu <sub>2</sub> O Photoabsorbers with Vertical Grain Boundaries Fabricated Using Instant Strike-Processed Metallic Seeds and Their Enhanced Photoelectrochemical Efficiency. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 6390-6399	8.3	1
303	Interleaved biphasic p/n blended copper indium selenide photoelectrode and its application in pulse-driven photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 285, 119839	21.8	9
302	Significantly enhanced chemical stability in interface-controlled Cu <sub>2</sub> +Se-reduced graphene oxide composites and related thermoelectric performances. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 459-465	6	4
301	Energy Transfer-Induced Photoelectrochemical Improvement from Porous Zeolitic Imidazolate Framework-Decorated BiVO <sub>4</sub> Photoelectrodes.. <i>Small Methods</i> , <b>2021</b> , 5, e2000753	12.8	6
300	Rapid thermal annealing effect of transparent ITO source and drain electrode for transparent thin film transistors. <i>Ceramics International</i> , <b>2021</b> , 47, 3149-3158	5.1	11
299	Progressive NO <sub>2</sub> Sensors with Rapid Alarm and Persistent Memory-Type Responses for Wide-Range Sensing Using Antimony Triselenide Nanoflakes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102439	15.6	4
298	Toward Simultaneous Achievement of Outstanding Durability and Photoelectrochemical Reaction in Cu <sub>2</sub> O Photocathodes via Electrochemically Designed Resistive Switching. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101905	21.8	4
297	Atomically tunable photo-assisted electrochemical oxidation process design for the decoration of ultimate-thin CuO on Cu <sub>2</sub> O photocathodes and their enhanced photoelectrochemical performances. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21744-21755	13	10
296	Smart Bifunctional Sb Se Nanorods for Integrated Water Purification: Insoluble Liquid Separation and Photoelectrochemical Degradation. <i>ChemSusChem</i> , <b>2020</b> , 13, 3017-3027	8.3	3

295	Tailoring the magnetic hyperthermia performances of gram-bean-extract-mediated highly disperse MFe <sub>2</sub> O <sub>4</sub> (M = Fe, Ni, Mn) nanoferrites. <i>Ceramics International</i> , <b>2020</b> , 46, 24290-24301	5.1	7
294	Formation of five-fold twinning electron diffraction pattern and twinning bands in bulk CuIn <sub>3</sub> Se <sub>5</sub> via hot deformation. <i>Materials Letters</i> , <b>2020</b> , 276, 128251	3.3	
293	ZnO decorated flexible and strong graphene fibers for sensing NO <sub>2</sub> and H <sub>2</sub> S at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 308, 127690	8.5	43
292	Bifunctional reusable Co <sub>0.5</sub> Ni <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticle-grafted carbon nanotubes for aqueous dye removal from contaminated water. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 6188-6197	5.5	2
291	Toward ultraviolet solution processed ZrO <sub>x</sub> /IZO transistors with top-gate and dual-gate operation: Selection of solvents, precursors, stabilizers, and additive elements. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 847, 156431	5.7	4
290	High-Intensity Ultrasound-Assisted Low-Temperature Formulation of Lanthanum Zirconium Oxide Nanodispersion for Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44926-44933	9.5	5
289	Controlled nanostructured morphology of BiVO <sub>4</sub> photoanodes for efficient on-demand catalysis in solar water-splitting and sustainable water-treatment. <i>Applied Surface Science</i> , <b>2020</b> , 514, 146075	6.7	13
288	Multi-spectral gate-triggered heterogeneous photonic neuro-transistors for power-efficient brain-inspired neuromorphic computing. <i>Nano Energy</i> , <b>2019</b> , 66, 104097	17.1	27
287	Electrochemically Assembled CuO Nanoparticles Using Crystallographically Anisotropic Functional Metal Ions and Highly Expeditious Resistive Switching via Nanoparticle Coarsening. <i>ACS Nano</i> , <b>2019</b> , 13, 5987-5998	16.7	7
286	Enhanced Gas Sensing Performance of Hydrothermal MoS <sub>2</sub> Nanosheets by Post-Annealing in Hydrogen Ambient. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 1094-1099	5.1	14
285	Enhanced Gas Sensing Performance of Surface-Activated MoS <sub>2</sub> Nanosheets Made by Hydrothermal Method with Excess Sulfur Precursor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1800999	1.6	3
284	Toward Robust Photoelectrochemical Operation of Cuprous Oxide Nanowire Photocathodes Using a Strategically Designed Solution-Processed Titanium Oxide Passivation Coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14840-14847	9.5	7
283	Bionanoelectronic platform with a lipid bilayer/CVD-grown MoS hybrid. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111512	11.8	4
282	Highly Improved Quasi-Two-Dimensional Oxide Transistors via Non-centrosymmetric Nitrogen Dioxide Treatment, toward Extremely Low Process Temperature and Operant Self-Aligned Coplanar Structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28397-28406	9.5	0
281	Inactivation of low-temperature-induced numerous defects at the electrode/channel interfaces using ultrathin Al <sub>2</sub> O <sub>3</sub> layers. <i>Microelectronic Engineering</i> , <b>2019</b> , 216, 111049	2.5	1
280	Optimal synthesis of antimony-doped cuprous oxides for photoelectrochemical applications. <i>Thin Solid Films</i> , <b>2019</b> , 671, 120-126	2.2	6
279	Compositionally graded SnO <sub>2</sub> /TiO <sub>2</sub> bi-layered compounds with dramatically enhanced charge transport efficiency for self-driven water purification applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 776, 839-849	5.7	7
278	Toward Adequate Operation of Amorphous Oxide Thin-Film Transistors for Low-Concentration Gas Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10185-10193	9.5	34

277	Ultralow Lattice Thermal Conductivity and Significantly Enhanced Near-Room-Temperature Thermoelectric Figure of Merit in $\text{ECu}_2\text{Se}$ through Suppressed Cu Vacancy Formation by Overstoichiometric Cu Addition. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3276-3284	9.6	38
276	Development of extremely low temperature processed oxide thin film transistors via atmospheric steam reforming treatment: Interface, surface, film curing. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 744, 23-33	5.7	5
275	Copper indium selenide water splitting photoanodes with artificially designed heterophasic blended structure and their high photoelectrochemical performances. <i>Nano Energy</i> , <b>2018</b> , 46, 1-10	17.1	5
274	Effects of Precursor Concentration on Dimensional Size, Defect State, and Gas Sensing Performance of $\text{MoS}_2$ Sheets Synthesized by Hydrothermal Method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800079	1.6	5
273	Electrochemical surface charge-inversion from semi-insulating $\text{Sb}_2\text{Se}_3$ photoanodes and abrupt photocurrent generation for water splitting. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2540-2549	35.4	13
272	Comparison of the electronic and thermoelectric properties of three layered phases $\text{Bi}_2\text{Te}_3$ , $\text{PbBi}_2\text{Te}_4$ and $\text{PbBi}_4\text{Te}_7$ : LEGO thermoelectrics. <i>AIP Advances</i> , <b>2018</b> , 8, 115213	1.5	5
271	Cuprous/Cupric Heterojunction Photocathodes with Optimal Phase Transition Interface via Preferred Orientation and Precise Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10364-10373	8.3	16
270	All-Solution-Processed Metal Oxide/Chalcogenide Hybrid Full-Color Phototransistors with Multistacked Functional Layers and Composition-Gradient Heterointerface. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800196	8.1	7
269	Corrosion Behavior and Metallization of Cu-Based Electrodes Using $\text{MoNi}$ Alloy and Multilayer Structure for Back-Channel-Etched Oxide Thin-Film Transistor Circuit Integration. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 447-454	2.9	8
268	Non-ideal current drop behavior in ultra-thin inorganic $\alpha\text{-InGaZnO}$ thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 8231-8237	2.1	2
267	Electrical and chemical stability engineering of solution-processed indium zinc oxide thin film transistors via a synergistic approach of annealing duration and self-combustion process. <i>Ceramics International</i> , <b>2017</b> , 43, 8956-8962	5.1	8
266	The pH-dependent corrosion behavior of ternary oxide semiconductors and common metals and its application for solution-processed oxide thin film transistors circuit integration. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 714, 572-582	5.7	6
265	Microstructure-dependent thermoelectric properties of polycrystalline $\text{InGaO}_3(\text{ZnO})_2$ superlattice films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 01B126	2.9	5
264	Chemical durability engineering of solution-processed oxide thin films and its application in chemically-robust patterned oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 339-349	7.1	19
263	Environment-stable solar window modules encapsulated with UV-curable transparent resin. <i>Solar Energy</i> , <b>2017</b> , 158, 528-532	6.8	3
262	Towards environmentally stable solution-processed oxide thin-film transistors: a rare-metal-free oxide-based semiconductor/insulator heterostructure and chemically stable multi-stacking. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10498-10508	7.1	17
261	Dual Role of Sb-Incorporated Buffer Layers for High Efficiency Cuprous Oxide Photocathodic Performance: Remarkably Enhanced Crystallinity and Effective Hole Transport. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8213-8221	8.3	11
260	Crystal growth direction-controlled antimony selenide thin film absorbers produced using an electrochemical approach and intermediate thermal treatment. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 172, 11-17	6.4	7

259	High photosensitivity and wide operation voltage in two-dimensional CdS nano-crystal layer embedded a-InGaZnO hybrid phototransistors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 725, 891-898	5.7	11
258	Thermoelectric transport properties of tetradymite-type Pb <sub>1</sub> -Sn Bi <sub>2</sub> Te <sub>4</sub> compounds. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 690, 966-970	5.7	3
257	Effects of Cu incorporation as an acceptor on the thermoelectric transport properties of Cu Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> compounds. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 213-219	5.7	12
256	An All Oxide-Based Imperceptible Thin-Film Transistor with Humidity Sensing Properties. <i>Materials</i> , <b>2017</b> , 10,	3.5	13
255	All-Solution Processed n-ZnO Nanorods/i-CdS/p-Cu <sub>2</sub> O Diodes Prepared Using Diluted Solution Precursors. <i>Nanoscience and Nanotechnology Letters</i> , <b>2017</b> , 9, 45-49	0.8	2
254	Binary Oxide p-n Heterojunction Piezoelectric Nanogenerators with an Electrochemically Deposited High p-Type Cu <sub>2</sub> O Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22135-41	9.5	10
253	Low voltage-driven oxide phototransistors with fast recovery, high signal-to-noise ratio, and high responsivity fabricated via a simple defect-generating process. <i>Scientific Reports</i> , <b>2016</b> , 6, 31991	4.9	33
252	Highly Repeatable and Recoverable Phototransistors Based on Multifunctional Channels of Photoactive CdS, Fast Charge Transporting ZnO, and Chemically Durable Al <sub>2</sub> O <sub>3</sub> Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15518-23	9.5	8
251	Chemically robust solution-processed indium zinc oxide thin film transistors fabricated by back channel wet-etched Mo electrodes. <i>RSC Advances</i> , <b>2016</b> , 6, 53310-53318	3.7	10
250	Extremely Thin Al <sub>2</sub> O <sub>3</sub> Surface-Passivated Nanocrystalline ZnO Thin-Film Transistors Designed for Low Process Temperature. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1305-1310	3.8	6
249	A combinatorial approach to solution-processed InGaO <sub>3</sub> (ZnO) <sub>m</sub> superlattice films: growth mechanisms and their thermoelectric properties. <i>CrystEngComm</i> , <b>2016</b> , 18, 807-815	3.3	4
248	Carrier confinement effect-driven channel design and achievement of robust electrical/photostability and high mobility in oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 727-735	7.1	10
247	Expedient floating process for ultra-thin InGaZnO thin-film-transistors and their high bending performance. <i>RSC Advances</i> , <b>2016</b> , 6, 63418-63424	3.7	9
246	Periodically pulsed wet annealing approach for low-temperature processable amorphous InGaZnO thin film transistors with high electrical performance and ultrathin thickness. <i>Scientific Reports</i> , <b>2016</b> , 6, 26287	4.9	12
245	Composition-dependent charge transport and temperature-dependent density of state effective mass interpreted by temperature-normalized Pisarenko plot in Bi <sub>2</sub> Sb <sub>x</sub> Te <sub>3</sub> compounds. <i>APL Materials</i> , <b>2016</b> , 4, 104812	5.7	10
244	Effects of top-layer thickness on electrical performance and stability in VZTO/ZTO bi-layer thin-film transistors. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 672, 449-456	5.7	3
243	Electrodeposition of p-type cuprous oxide layers on n-type zinc oxide layers with different electrical resistivities. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 02B104	1.3	3
242	Enhancement of the Electrical Performance of Electrodeposited n-Type ZnO Nanorods by Antimony Doping. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, D350-D353	3.9	

241	Single phase tin sulfide films prepared by one-bath electrodeposition. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 8609-8615	2.1	2
240	Liquid-solid spinodal decomposition mediated synthesis of Sb <sub>2</sub> Se <sub>3</sub> nanowires and their photoelectric behavior. <i>Nanoscale</i> , <b>2015</b> , 7, 12913-20	7.7	30
239	Dual electrical behavior of multivalent metal cation-based oxide and its application to thin-film transistors with high mobility and excellent photobias stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6118-24	9.5	20
238	Bi-layer channel structure-based oxide thin-film transistors consisting of ZnO and Al-doped ZnO with different Al compositions and stacking sequences. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 198-205	2.9	29
237	Investigation of the photoelectrochemical properties for typical ZnO nanostructures grown by using chemical vapor transport. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 832-838	0.6	2
236	Effect of topographical control by a micro-molding process on the activity of human Mesenchymal Stem Cells on alumina ceramics. <i>Biomaterials Research</i> , <b>2015</b> , 19, 23	16.8	8
235	Low-Temperature Processable High-Performance Electrochemically Deposited p-Type Cuprous Oxides Achieved by Incorporating a Small Amount of Antimony. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5214-5221	15.6	18
234	Enhanced oxygen reduction and evolution by in situ decoration of hematite nanoparticles on carbon nanotube cathodes for high-capacity nonaqueous lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 13767-13775	13	30
233	Optimization of Synthesis Conditions of Na <sub>0.75</sub> CoO <sub>2</sub> for High Thermoelectric Performance. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 1408-1412	1.9	3
232	Effect of post-annealing temperatures on thin-film transistors with ZnO/Al <sub>2</sub> O <sub>3</sub> superlattice channels. <i>Thin Solid Films</i> , <b>2015</b> , 584, 336-340	2.2	23
231	Photoelectrochemical water splitting properties of hydrothermally-grown ZnO nanorods with controlled diameters. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 65-72	2.9	23
230	Role of ultrathin Al <sub>2</sub> O <sub>3</sub> layer in organic/inorganic hybrid gate dielectrics for flexibility improvement of InGaZnO thin film transistors. <i>Organic Electronics</i> , <b>2014</b> , 15, 1458-1464	3.5	32
229	Enhancement of Electrical Stability in Oxide Thin-Film Transistors Using Multilayer Channels Grown by Atomic Layer Deposition. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 73-78	2.9	47
228	Non-toxic selenization using thermal annealing for CuGa/In bi-layer precursors deposited by sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 3492-3497	2.1	1
227	All oxide ultraviolet photodetectors based on a p-Cu <sub>2</sub> O film/n-ZnO heterostructure nanowires. <i>Thin Solid Films</i> , <b>2014</b> , 570, 282-287	2.2	17
226	Artificially Controlled Two-Step Electrodeposition of Cu and Cu/In Metal Precursors with Improved Surface Roughness for Solar Applications. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, D447-D452	3.9	6
225	Design of step composition gradient thin film transistor channel layers grown by atomic layer deposition. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 223513	3.4	12
224	Microstructural characteristics of tin oxide-based thin films on (0001) Al <sub>2</sub> O <sub>3</sub> substrates: effects of substrate temperature and RF power during co-sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 8908-14	1.3	3



223	Double-layer channel structure based ZnO thin-film transistor grown by atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 328-331	2.5	16
222	Anomalous tin chemical bonding in indium-zinc-tin oxide films and their thin film transistor performance. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 485101	3	21
221	Effects of growth temperature on performance and stability of zinc oxide thin film transistors fabricated by thermal atomic layer deposition. <i>Thin Solid Films</i> , <b>2014</b> , 562, 597-602	2.2	15
220	Thermoelectric properties of a doped LaNiO <sub>3</sub> perovskite system prepared using a spark-plasma sintering process. <i>Electronic Materials Letters</i> , <b>2013</b> , 9, 513-516	2.9	7
219	Improved light emission through an AlGaN coalescence layer of 365-nm ultraviolet lighting-emitting diodes on patterned sapphire substrates. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 62, 942-948	0.6	
218	Ultraviolet light emitting diode based on p-NiO/n-ZnO nanowire heterojunction. <i>Journal of Crystal Growth</i> , <b>2013</b> , 370, 314-318	1.6	46
217	Influence of initial growth pressure on the optical properties of Si-doped nonpolar a-plane GaN grown with different doping levels. <i>Journal of Crystal Growth</i> , <b>2013</b> , 370, 22-25	1.6	2
216	Microstructural characterization and formation mechanism of 211-top facets of ZnO-based nanowall structures. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 412, 12-16	2.8	3
215	Nonpolar a-GaN epilayers with reduced defect density using patterned r-plane sapphire substrates. <i>Thin Solid Films</i> , <b>2013</b> , 544, 244-248	2.2	6
214	Influence of growth temperature on the electrical and structural characteristics of conductive Al-doped ZnO thin films grown by atomic layer deposition. <i>Thin Solid Films</i> , <b>2013</b> , 545, 106-110	2.2	30
213	Controllable band-gap engineering of the ternary Mg <sub>x</sub> Ni <sub>1-x</sub> O thin films deposited by radio frequency magnetron sputtering for deep ultra-violet optical devices. <i>Thin Solid Films</i> , <b>2013</b> , 529, 417-420	2.2	10
212	p-Channel oxide thin film transistors using solution-processed copper oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 2417-21	9.5	92
211	Two-step lateral growth of GaN for improved emission from blue light-emitting diodes. <i>Journal of Crystal Growth</i> , <b>2013</b> , 372, 157-162	1.6	1
210	Oxide p-n Heterojunction of Cu <sub>2</sub> O/ZnO Nanowires and Their Photovoltaic Performance. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-7	3.2	23
209	Semiconducting p-type MgNiO:Li epitaxial films fabricated by cosputtering method. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 041501	2.9	2
208	Morphological evolution of silver nanoparticles and its effect on metal-induced chemical etching of silicon. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 3715-8	1.3	1
207	All-Solution-Processed InGaO <sub>3</sub> (ZnO) <sub>m</sub> Thin Films with Layered Structure. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-6	3.2	5
206	An Optimization of Composition Ratio among Triple-Filled Atoms inIn <sub>0.3-x-y</sub> BaxCeyCo <sub>4</sub> Sb <sub>12</sub> System. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-7	3.2	2

205	Effects of channel thickness on electrical properties and stability of zinc tin oxide thin-film transistors. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 475106	3	25
204	Semitransparent all-oxide p-NiO/n-ZnO nanowire ultraviolet photosensors. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2605-2610	2.5	9
203	Effects of In or Ga doping on the growth behavior and optical properties of ZnO nanorods fabricated by hydrothermal process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 1552-1556	1.6	38
202	Artificial semiconductor/insulator superlattice channel structure for high-performance oxide thin-film transistors. <i>Scientific Reports</i> , <b>2013</b> , 3, 2737	4.9	61
201	Correlation between electrical properties and point defects in NiO thin films. <i>Metals and Materials International</i> , <b>2012</b> , 18, 1003-1007	2.4	12
200	Hybrid solution processed InGaO <sub>3</sub> (ZnO) <sub>m</sub> thin films with periodic layered structures and thermoelectric properties. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 16312		15
199	Classification of stacking faults and dislocations observed in nonpolar a-plane GaN epilayers using transmission electron microscopy. <i>Applied Surface Science</i> , <b>2012</b> , 258, 2522-2528	6.7	24
198	Effect of growth pressure on the morphology evolution and doping characteristics in nonpolar a-plane GaN. <i>Applied Surface Science</i> , <b>2012</b> , 258, 3565-3570	6.7	5
197	Effects of Al concentration on microstructural characteristics and electrical properties of Al-doped ZnO thin films on Si substrates by atomic layer deposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 5598-603	1.3	6
196	Biepitaxial Growth of High-Quality Semiconducting NiO Thin Films on (0001) Al <sub>2</sub> O <sub>3</sub> Substrates: Microstructural Characterization and Electrical Properties. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 2495-2500	3.5	25
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62	Defects in interfacial layers and their role in the growth of ZnO nanorods by metallorganic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 143115	3.4	26

61	Growth of Vertical Nanorods with a MgZnO Ternary Phase Through Thermal Evaporation. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 50, 1701	0.6	3
60	Coexistence of chalcopyrite and CuAu-type ordered structures in In <sub>0.52</sub> Al <sub>0.48</sub> As epilayers grown on InP substrates. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 376-377, 598-601	2.8	
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57	Inversion domain boundaries and phase separation in p-AlGa <sub>N</sub> layers with high Al contents. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 231905	3.4	4
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55	Improvement of luminous intensity of InGa <sub>N</sub> light emitting diodes grown on hemispherical patterned sapphire. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 2169-2173		40
54	Formation of vertically aligned ZnO nanorods on ZnO templates with the preferred orientation through thermal evaporation. <i>Journal of Crystal Growth</i> , <b>2006</b> , 289, 370-375	1.6	42
53	Investigation of Mg doping in high-Al content p-type Al <sub>x</sub> Ga <sub>1-x</sub> N (0.3. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 082107	3.4	67
52	Growth of thick AlGa <sub>N</sub> by mixed-source hydride vapor phase epitaxy. <i>Applied Surface Science</i> , <b>2005</b> , 243, 178-182	6.7	3
51	Nanostructure formation and emission characterization of blue emission In <sub>N</sub> /Ga <sub>N</sub> quantum well with thin In <sub>N</sub> well layers. <i>Journal of Crystal Growth</i> , <b>2005</b> , 281, 349-354	1.6	14
50	Time-resolved photoluminescence spectroscopy of InAs quantum dots on InP with various InAlGaAs barrier thicknesses. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 26, 207-211	3	2
49	V-defects and dislocations in InGa <sub>N</sub> /Ga <sub>N</sub> heterostructures. <i>Thin Solid Films</i> , <b>2005</b> , 479, 316-320	2.2	25
48	Size and shape of In rich clusters and InGa <sub>N</sub> QWs at the nanometer scale. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 2381-2384		
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42	Quantitative evaluation of the atomic structure of defects and composition fluctuations at the nanometer scale inside InGaN/GaN heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 2735-2738	1.3	4
41	Emission properties and thermal annealing of InGaN/GaN multiple quantum wells with different protection layers. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 2816-2819	1.3	3
40	Direct heteroepitaxial lateral overgrowth of GaN on stripe-patterned sapphire substrates with very thin SiO <sub>2</sub> masks. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 2763-2766	1.3	6
39	Formation of V-shaped pits in GaN thin films grown on high temperature GaN. <i>Journal of Crystal Growth</i> , <b>2004</b> , 261, 50-54	1.6	29
38	Two-step growth of high quality GaN using V/III ratio variation in the initial growth stage. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 7-13	1.6	68
37	Influence of growth temperature and reactor pressure on microstructural and optical properties of InAlGaN quaternary epilayers. <i>Journal of Crystal Growth</i> , <b>2004</b> , 267, 67-73	1.6	22
36	Characterization of Nano-size Indium Cluster in InGaN/GaN Multiple QuantumWells with High Indium Composition. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 775, 9121		1
35	Influence of GaAs/InAs quasi-monolayer on the structural and optical properties of InAs/GaAs quantum dots. <i>Journal of Crystal Growth</i> , <b>2003</b> , 252, 493-498	1.6	11
34	Two-step temperature ramping technique in MOCVD GaN films with high electromechanical coupling coefficients. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 2006-2009		
33	Effect of growth temperature and Si doping on the microstructure of GaN thin films grown on high temperature GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 2095-2098		5
32	Direct observation of hillocks on pendeo-epitaxial GaN films and stabilization of GaN seed layers for hillock-free surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 2087-2090		2
31	Structural and optical properties of InGaN/GaN triangular-shaped quantum wells with different emission wavelengths. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 2703-2706		0
30	Drastic Improvements of GaN Film Quality by Applying Si Irradiation during Growth Interruption in rf-MBE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 179-182		
29	Structural and Optical Properties of Lateral Overgrown GaN Grown by Double Pendeo-Epitaxy Technique. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 550-553		2
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26	Observation of inversion domain boundaries in Mg-doped AlGaIn layers grown by metalorganic chemical vapor deposition. <i>Applied Surface Science</i> , <b>2002</b> , 200, 138-142	6.7	4

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20	Influence of strain-induced indium clustering on characteristics of InGaN/GaN multiple quantum wells with high indium composition. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 1104-1107	2.5	27
19	Structural and optical investigation of InGaIn/GaN multiple quantum well structures with various indium compositions. <i>Journal of Electronic Materials</i> , <b>2001</b> , 30, 1348-1352	1.9	19
18	Effect of Si, Mg, and MgZn doping on structural properties of a GaN layer grown by metalorganic chemical vapor deposition. <i>Solid-State Electronics</i> , <b>2001</b> , 45, 2023-2027	1.7	2
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16	Multi-Emission from InGaIn/GaN Multi-Quantum Wells Grown on Hexagonal GaN Microstructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 228, 183-186	1.3	1
15	Structural Properties of GaN Grown by Pendeo-Epitaxy with In-Doping. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 228, 235-238	1.3	5
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13	Study on the growth of crack-free Al <sub>x</sub> Ga <sub>1-x</sub> N (0.133≤x≤0.1)/GaN heterostructure with low dislocation density. <i>Journal of Crystal Growth</i> , <b>2001</b> , 222, 104-109	1.6	7
12	Microstructural characterization of InGaIn/GaN multiple quantum wells with high indium composition. <i>Journal of Crystal Growth</i> , <b>2001</b> , 231, 466-473	1.6	55
11	Structural properties of Si and Mg doped and undoped Al <sub>0.13</sub> Ga <sub>0.87</sub> N layers grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , <b>2001</b> , 233, 667-672	1.6	7
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