

연도	연번	논문 제목	게재정보						총 저자			저자 중 사업단 참여교수					
			게재 학술 지명	학술지 구분	ISSN	권	호	쪽	년월 (YYYY MM)	주 저자 수	기타 저자 수	총 저자 수	주저자		기타저자		총 저자
													성명	수 (A)	성명	수 (B)	
	1	Defect-Induced Gas-Sensing Properties of a Flexible SnS Sensor under UV Illumination at Room Temperature	Sensors	SCI(E)	1424-8220	20	19	5701	202010	3	7	10	김도진, 김천중	2		1	3
	2	pn-Heterojunction of the SWCNT/ZnO Nanocomposite for Temperature Dependent Reaction with Hydrogen	Journal of Colloid and Interface Science	SCI(E)	0021-9797	584		582	202102	3	4	7	김도진, 김천중	2			2
	3	N-/S- Dual Doped C@ZnO: An Excellent Material for Highly Selective and Responsive NO ₂ Sensing at Ambient Temperatures	Chemical Engineering Journal	SCI(E)	1385-8947			127740	202011	2	6	8			김도진	1	1
	4	Hole-supply-rate-controlled methanol-gas-sensing reaction over p-type Co ₃ O ₄ /single-walled carbon nanotube hybrid structures	SENSORS AND ACTUATORS B-CHEMICAL	SCI(E)	0925-4005	326		128956	202101	3	2	5	김도진, 김천중	2			2
	5	Carbon nanotube-metal oxide nanocomposite gas sensing mechanism assessed via NO ₂ adsorption on n-WO ₃ /p-MWCNT nanocomposites	Ceramics International	SCI(E)	0272-8842	46	18	29233	202012	3	4	7	김도진, 김천중	2			2
	6	Multi-redox phenazine/non-oxidized graphene/cellulose nanohybrids as ultrathick cathodes for high-energy organic batteries	Nano Research	SCI(E)	1998-0124		CN 11-5974	O4	202011	4	5	9	김천중	1			1
	7	Co ₃ O ₄ /reduced graphene oxide/BiVO ₄ nanorod as high performance photoanode for water oxidation	Electrochimica Acta	SCI(E)	0013-4686	364	20	137283	202012	3	3	6	김도진, 김천중	2	정종률	1	3
	8	Anion exchange and successive ionic layer adsorption and reaction-assisted coating of BiVO ₄ with Bi ₂ S ₃ to produce nanostructured photoanode for enhanced photoelectrochemical water splitting	Journal of Colloid & Interface Science	SCI(E)	0021-9797	585		72	202103	3	1	4	김도진, 김천중	2			2
	9	Effect of SILAR-Anchored ZnFe ₂ O ₄ on the BiVO ₄ Nanostructure: An Attempt towards Enhancing Photoelectrochemical Water Splitting	Applied Surface Science	SCI(E)	0169-4332				accepted				김도진, 김천중	2			2
	10	Symmetric Bipolar Molecular Structure for Organic Batteries with the Highest Voltage and Superior Cycling Stability	Advanced Energy Materials	SCI(E)	1614-6832				under review	4	3	7	김천중	1			1
	11	Cooperative Conformational Change of Single Organic Molecule for Ultrafast Rechargeable Batteries	ACS Energy Letters	SCI(E)	2380-8195				Revise	4	5	9	김천중	1			1
	12	Effects on the Photochemical Oxidation of the Carbonaceous Additives in the Li-S Cell	ACS Materials Letters	SCI(E)	2639-4979				Revise	5	4	9	김천중	1			1
	13	Revisiting the Infiltration Preprocess for High Sulfur Utilization in Lithium Sulfur Cell	ACS Energy Letters	SCI(E)	2380-8195				submission	5	3	8	김천중	1			1
	14	High-Performance Piezoelectric Nanogenerators Based on Piezoelectrically-Enhanced Double Composites	ACS Energy Letters	SCI(E)	2380-8195				Submission			7			김현석	1	1
	15	CVD grown poly(para-xylylene) family for flexible and functionalizable gate-dielectric layer of oxide based TFT	Advanced Functional Materials	SCI(E)	1616-301X				Submission	4	3	7	김현석	1			1
	16	Ensemble Design of Electrode-Electrolyte Interfaces: Toward High-Performance Thin-Film All-Solid-State Li-Ion Batteries	ACS Nano	SCI(E)	1936-0851				accepted	5	5	10	김현석	1			1
	17	Mobility enhancement of indium-gallium oxide via oxygen diffusion induced by a metal catalytic layer	Journal of Alloys and Compounds	SCI(E)	0925-8388				in press	4	2	6	김현석	1			1
	18	Metal-Induced n+/n Homojunction for Ultra-High Electron Mobility Transistors	NPG Asia Materials	SCI(E)	1884-4049	12	81	1	202011	4	6	10	김현석	1			1
	19	Improved Field Effect Mobility of In-Ga-Zn-O TFTs by Oxidized Metal Layer	IEEE Transactions on electron devices	SCI(E)	0018-9383	67	11	4924	202011	3	4	7	김현석	1			1
	20	Performance enhancement of p-type SnO semiconductor via SiO _x passivation	Materials Today Communications	SCI(E)	2352-4928				accepted	3	3	6	김현석	1			1
	21	An antisite defect mechanism for room-temperature ferroelectricity in orthoferrites	Nature Communications	SCI(E)	2041-1723				Revise			9			김현석	1	1
	22	Multilayered PVDF-HEF Porous Separator via Phase Separation and Selective Solvent Etching for High Voltage Lithium-Ion Batteries	Membranes	SCI(E)	2077-0375	11	1	41	202101			8			김현석	1	1
	23	A Facile Route to Nonvolatile Zn-O-N Thin-Film Transistors via Heterojunction Structure	ACS Applied Materials & Interfaces	SCI(E)	1944-8244				Submission	4	5	9	김현석	1			1
	24	The Influence of Nitrogen Content for Electrical Performances in the ZnON TFTs: an Advanced Analytical Study based on NBS-induced instability	ACS Applied Materials & Interfaces	SCI(E)	1944-8244				Submission	4	2	6	김현석	1			1
	25	Investigation of ordering on oxygen-deficient LiNi _{0.5} Mn _{1.5} O ₄ thin-film for boosting electrochemical performance	Journal of Materials Chemistry A	SCI(E)	2050-7488				Submission	4	3	7	김현석	1			1
	26	Recyclable aqueous metal adsorbent: Synthesis and Cu(II) sorption characteristics of ternary nanocomposites of Fe ₃ O ₄ nanoparticles@graphene-poly-N-phenylglycine nanofibers	Journal of Hazardous Materials	SCI(E)	0304-3894	401	5	123283	202101	2	6	8			김현유	1	1
	27	Metastable Rhombohedral Phase Transition of Semiconducting Indium Oxide Controlled by Thermal Atomic Layer Deposition	Chemistry of Materials	SCI(E)	0897-4756	32	17	7397	202008	3	7	10			김현유	1	1
	28	How Rh surface breaks CO ₂ molecules under ambient pressure	Nature Communications	SCI(E)	2041-1723	11		5649	202011	6	3	9	김현유	1			1
	29	Zero-Thermal-Quenching and Improved Chemical Stability of a UC _r 4C ₄ -Type Phosphor via Crystal Site Engineering	Chemical Engineering Journal	SCI(E)	1385-8947			127664	Accepted	4	4	8	김현유	1			1
	30	Direct Growth of Highly Conductive Large-Area Stretchable Graphene	Advanced Science	SCI(E)	2198-3844			2003697	202102	6	10	16	김현유,윤순길	2			2
	31	Confined Interfacial Alloying of Multilayered Pd-Ni Nanocatalyst for Widening Hydrogen Detection Capacity	Sensors & Actuators B: Chemical	SCI(E)	0925-4005				202103	2	6	8			김현유	1	1
	32	Insightful understanding hot carriers generation and transfer in plasmonic Au@CeO ₂ core-shell photocatalysts for light-driven hydrogen evolution improvement	Applied Catalysis B: Environmental	SCI(E)	0926-3373				Accepted	2	10	12			김현유	1	1
	33	Promoting Inherent Catalytic Activity and Stability of TiO ₂ Supported Pt Single-Atoms at CeO _x -TiO ₂ Interfaces	Energy & Environmental Science	SCI(E)	1754-5692				Revise	6	3	9	김현유,김천중	2			2
	34	A Measure of Active Interfaces in Supported Catalysts for High-temperature Reactions	Nature Catalysis	SCI(E)	2520-1158				Revise	6	6	12	김현유	1			1
	35	Roll-to-roll gravure-printed flexible perovskite solar cells using eco-friendly antisolvent bathing with wide processing window	Nature communications	SCI(E)	2041-1723	11		5146	202010	2	5	7			양태열	1	1
	36	Metal-free phthalocyanine that facilitated hole extraction as hole transporting material and passivated interfacial defects as Lewis base for efficient and stable perovskite solar cells	Small methods	SCI(E)	2366-9608				Revise	3	2	5	양태열	1			
	37	Bromine Doping of MAPbI ₃ Films Deposited via Chemical Vapor Deposition Enables Efficient and Photo-Stable Self-Powered Photodetectors	Advanced Optical Materials	SCI(E)	2195-1071	8	19	2000845	202010	4	5	9	윤순길	1			1
2020.09.01~2021.01.31	38	Light-Driven Piezo- and Triboelectricity in Organic-Inorganic Metal Trihalide Perovskite toward Mechanical Energy Harvesting and Self-powered Sensor Application	ACS Applied Materials & Interfaces	SCI(E)	1944-8244	12	45	50472	202011	3	2	5	윤순길	1			1
	39	Unprecedented Flexibility of In-Situ Layer-by-Layer Stacked Graphene with Ultralow Sheet Resistance	Nano Today	SCI(E)					Submitted after Revision				윤순길	1			1
	40	ZnAl-LDH-induced electroactive β-phase and controlled dielectrics of PVDF for high-performance triboelectric generator for humidity and pressure sensing applications	Nano Energy	SCI(E)					under review				윤순길	1			1
	41	Comparative study of hydrogen embrittlement resistance between additively and conventionally manufactured 304L austenitic stainless steels	Materials Science and Engineering: A	SCI(E)	0921-5093	28	803	140499	202101	1	5	6	이동현	1			1

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			게재 학술 지명	학술지 구분	ISSN	권	호	쪽	년월 (YYYY MM)	주 저자 수	기타 저자 수	총 저자 수	주저자		기타저자			
													성명	(A)	성명	(B)		
	42	Effects of Building Direction and Heat Treatment on the Local Mechanical Properties of Direct Metal Laser Sintered 15-5 PH Stainless Steel	Materials Characterization	SCI(E)	1044-5803	167		110468	202009	2	5	7			이수열	1	1	
	43	Development of a Multi-Functional Acrylic Urethane Coating with High Hardness and Low Surface Energy	PROGRESS IN ORGANIC COATINGS	SCI(E)	0300-9440	147		105748	202010	2	4	6	이수열		1		1	
	44	Phase Stress Partition in Gray Cast Iron Using In Situ Neutron Diffraction Measurements	Metallurgical and Materials Transactions A	SCI(E)	1073-5623	51		5029	202010	2	9	11			이수열	1	1	
	45	Integrity Assessment of Obsolete Thermal Storage Tank in District Heating System	KOREAN JOURNAL OF METALS AND MATERIALS	SCI(E)	1738-8228	58	10	693	202010	2	7	9	이수열		1		1	
	46	Effect of La addition on precipitation hardening in Mg-10Dy alloy	Materialia	SCI(E)	2589-1529	14		100898	202012	3	7	10			이수열	1	1	
	47	Enhancement of Fatigue Resistance by Overload-Induced Deformation Twinning in a CoCrFeMnNi High Entropy Alloy	Acta Materialia	SCI(E)	1359-6454	201		412	202012	3	12	15	이수열		1		1	
	48	Unravelling Thermal History during Additive Manufacturing of Martensitic Stainless Steel	Journal of Alloys and Compounds	SCI(E)	0925-8388			157555	202103	3	4	7	이수열		1		1	
	49	Unearthing Principal Strengthening Factors Tuning the Additive Manufactured Stainless Steel	Scripta materialia	SCI(E)	1359-6462				under review	3	5	8	이수열		1		1	
	50	Multiple Deformation Scheme in Additively Manufactured CoCrNi Medium Entropy Alloy at 210K	Scripta materialia	SCI(E)	1359-6462				under review	3	4	7	이수열		1			
	51	Tailoring Biodegradable Iron-Based Alloys by Pre-Additive Manufacturing Microalloying	Nature communications	SCI(E)	2041-1723				submitted	4	11	15	이수열		1			
	52	Tantalum network nanoparticles from a Ta2O5+kMg system by liquid magnesium controlled combustion	Combustion and Flame	SCI(E)	0010-2180	219		136	202009	2	3	5	이종현		1		1	
	53	Effect of zinc addition on fuel crud deposition in simulated PWR primary coolant conditions	Annals of Nuclear Energy	SCI(E)	0306-4549	146		107643	202010	2	3	5			이종현	1	1	
	54	Fabrication of large-scale p-type 75%Sb2Te3-25%Bi2Te3 thermoelectric materials by gas atomization and hot isostatic pressing	Materials Research Bulletin	SCI(E)	0025-5408	130		110924	202010	2	5	7			이종현	1	1	
	55	Effect of the electrolyte composition on the electrochemical behavior of Nd fluoride complex in a LiF-NdF3-Nd2O3 molten salt	Journal of Electroanalytical Chemistry	SCI(E)	1572-6657	879		114751	202012	2	2	4	이종현		1		1	
	56	Recrystallization stimulated hierarchical structures for the simultaneous enhancement of Seebeck coefficient and electrical conductivity in Bi-Sb-Te alloys	Journal of Alloys and Compounds	SCI(E)	0925-8388	842		155804	202012	2	4	6			이종현	1	1	
	57	3D self-assemblies of β-Si3N4: Synthesis, characterization and growth mechanism	Journal of Crystal Growth	SCI(E)	0022-0248	549		125866	202012	2	4	6	이종현		1		1	
	58	Rare-earth hexaboride 2D nanostructures synthesis and coupling with NaAlH4 for improved hydrogen release	Ceramics International	SCI(E)	0272-8842	47	1	877	202101	1	5	6						
	59	AlN nucleation and spontaneous pattern formation via combustion of an Al-C-AlF3 mixture in nitrogen	Journal of Crystal Growth	SCI(E)	0022-0248				202102	2			이종현		1		1	
	60	Porous tantalum network structures exhibiting high electrochemical performance as capacitors	Journal of Energy Storage	SCI(E)	2352-152X	34		102222	202102	1	3	4						
	61	Hf metal fine powder synthesis via a chemically activated combustion-reduction process	Materials Chemistry and Physics	SCI(E)	0254-0584				under review			8						
	62	Isothermal and Cyclic Corrosion Behaviors of Superalloys in a Hot Lithium Molten Salt System for an Electroreduction Process	Journal of Alloys and Compounds	SCI(E)	0925-8388				under review			5						
	63	Development of the Defect Analysis Technology for CANDU Spent Fuel	Journal of Nuclear Fuel Cycle and Waste Technology	SCI(E)					Submitted			2						
	64	Direct Electroreduction of Ilmenite into Ferrotitanium Alloys in a Molten Salt of LiCl-Li2O	Journal of The Electrochemical Society	SCI(E)	0013-4651				Submitted			5						
	65	Microscopic origin of asymmetric magnetization reversal of Co/Pt multilayers with perpendicular magnetic anisotropy	CURRENT APPLIED PHYSICS	SCI(E)	1567-1739	20	9	1026-103	202009	1	9	10			정종율	1	1	
	66	Observation of thermal spin-orbit torque in W/CoFeB/MgO structures	NANO LETTERS	SCI(E)	1530-6984	20	11	7803-781	202010	3	7	10			정종율	1	1	
	67	Unconventional magnetoresistance induced by spinmagnetism in GdFeCo	PHYSICAL REVIEW B	SCI(E)	2469-9950	103	1		202101	3	11	14			정종율	1	1	
	68	Optimization of FeNi/SWCNT composites by a simple co-arc discharge process to improve microwave absorption performance	JOURNAL OF ALLOYS AND COMPOUNDS	SCI(E)	0925-8388	852			202101	4	5	9	정종율		1	김도진	1	1
	69	Solubility-Controlled Room-Temperature Synthesis of Cesium Lead Halide Perovskite Nanocrystals	ChemNanoMat	SCI(E)	2199-692X	6	12	1863	202011	3	3	6	최지훈		1	정종율	1	1
	70	Dielectric Nanowire Hybrids for Plasmon-Enhanced Light-Matter Interaction in 2D Semiconductors	ACS Nano	SCI(E)	1936-0851	14	9	11985	202009	2	5	7			최지훈	1	7	
	71	Suppressed Mn2+ Doping in Organometal Halide Perovskite Nanocrystals by Formation of Two-Dimensional (CH3NH3)2MnCl4		SCI(E)					submission	2	2	4	최지훈		1		4	
	72	Highly Stable Colloidal Perovskite Nanocrystals with Suppressed Phase and Structural Evolution for Optoelectronic Applications		SCI(E)					submission	2	2	4	최지훈		1		4	
	73	Self-Aligned Metal Halide Perovskite Nanowires via Dielectrophoresis for Gas Sensing Applications		SCI(E)					submission	3	3	6	최지훈		1		6	
	74	Ligand-Mediated Morphological Evolution of Methylammonium Lead Bromide Nanocrystals		SCI(E)					submission	2	1	3	최지훈		1		3	
	75	Schottky-type Quantum Dot Heterostructure with Directional Charge Transfer Channels for High Sodium Storage		SCI(E)					submission	2	3	5			최지훈	1	5	
	76	Effects of Initial Precipitate on Shear Deformation during Asymmetric Rolling of Al-Mg-Si Alloy: Texture and Formability	Korean Journal of Metals and Materials	SCI(E)	1738-8228	58	10	703	202010	2	2	4	한준현		1		1	
	77	Reconstruction and Size Prediction of Prior Austenite Grain Boundary(PAGB) using Artificial Neural Networks	Korean Journal of Metals and Materials	SCI(E)	1738-8228	58	12	822	202012	2	2	4	한준현		1		1	
	78	Electrochemiluminescent Transistors: A New Strategy toward Light-Emitting Switching Devices	Advanced Materials	SCI(E)	1521-4095			2020054	202012	3	2	5	홍기원		1			