

나노저널 [Nano Convergence] 연차실적보고서

2020-2021



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PART
I

출판실적

1-1. 출판실적 분석

- 1-1-1. 연도별 투고 및 출판실적
- 1-1-2. 분과별 출판실적
- 1-1-3. 국가별 출판실적

1-2. 다운로드 및 인용현황

- 1-2-1. 연도별 다운로드 현황
- 1-2-2. 연도별 IF 증가추이

1-3. Thematic Series 출판

- 1-3-1. Thematic Series 출판실적
- 1-3-2. 학회 연계 Thematic Series 출판실적



1

출판실적

1-1

출판실적 분석

1-1-1. 연도별 투고 및 출판실적

Submissions	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total Submitted	2	66	56	58	69	103	253	308	256
Total Decided		49	52	63	59	82	215	302	254
Accept		27	14	35	37	38	44	33	38
Reject		22	38	28	22	44	171	269	216
Acceptance Rate		55%	27%	56%	63%	47%	21%	11%	15%
Rejection Rate		45%	73%	44%	37%	53%	79%	89%	85%
Average Days to First Decision	29	35	40	29	41	22	19	20.2	17.5
Average Days to Final Disposition Accept		43	60	90	50	48	66	104	75
Average Days to Final Disposition Reject		55	42	55	29	19	14	22	19

1-1-2. 분과별 출판실적

분과	2014	2015	2016	2017	2018	2019	2020	2021
Nanoelectronics(NE)	5	3	7	-	3	11	6	-
Nanophotonics(NP)	4	4	-	4	3	-	6	1
Nanomaterials(NM)	4	4	7	14	6	21	11	12
Nanoenergy & Nanoenvironment(EE)	3	1	4	7	2	-	4	8
Nanofabrication & Nanocharacterization(FC)	3	4	3	4	5	2	2	3
Nanobio & Nanomedicine(BM)	5	5	11	5	17	1	11	16
Emerging Nanotechnology(EN)	3	3	2	3	1	5	-	-
합계	27	24	34	37	37	40	40	40

1-1-3. 국가별 출판실적

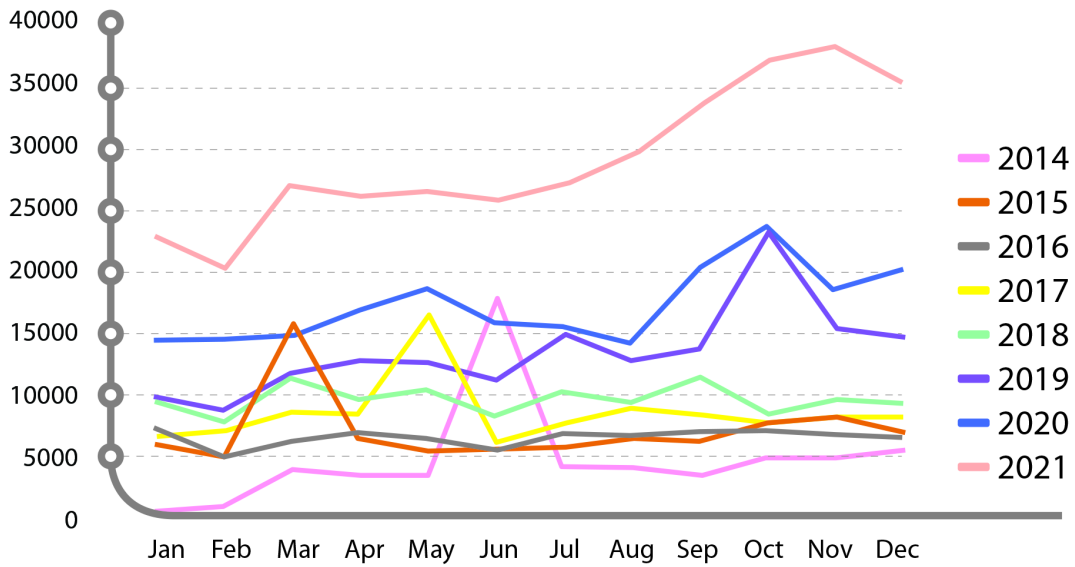
※ 국가 : 교신저자 소속 기준

Country	Number of Manuscripts Published							
	2014	2015	2016	2017	2018	2019	2020	2021
KOREA, REPUBLIC OF	13	14	21	22	15	24	25	18
UNITED STATES	5	3	7	7	10	4	6	11
BELARUS		2						
BELGIUM					1			
HONG KONG					1			
INDIA	2	2	3	2	3	5		
IRAN	1							
ISRAEL					1			1
UNITED KINGDOM		2			1		1	1
SWITZERLAND	2	1						
CHINA			1		1	3	4	6
JAPAN			1	5	1			
SINGAPORE	1			1	1	2	1	
SWEDEN					1			
FRANCE			1					
AUSTRALIA	1					1		2
AZERBAIJAN	1							
CANADA	1							
MEXICO					1			
POLAND						1		
CZECH REPUBLIC							1	
MALAYSIA							1	
GREECE								1
SAUDI ARABIA							1	
Grand Total	27	24	34	37	37	40	40	40

1-2

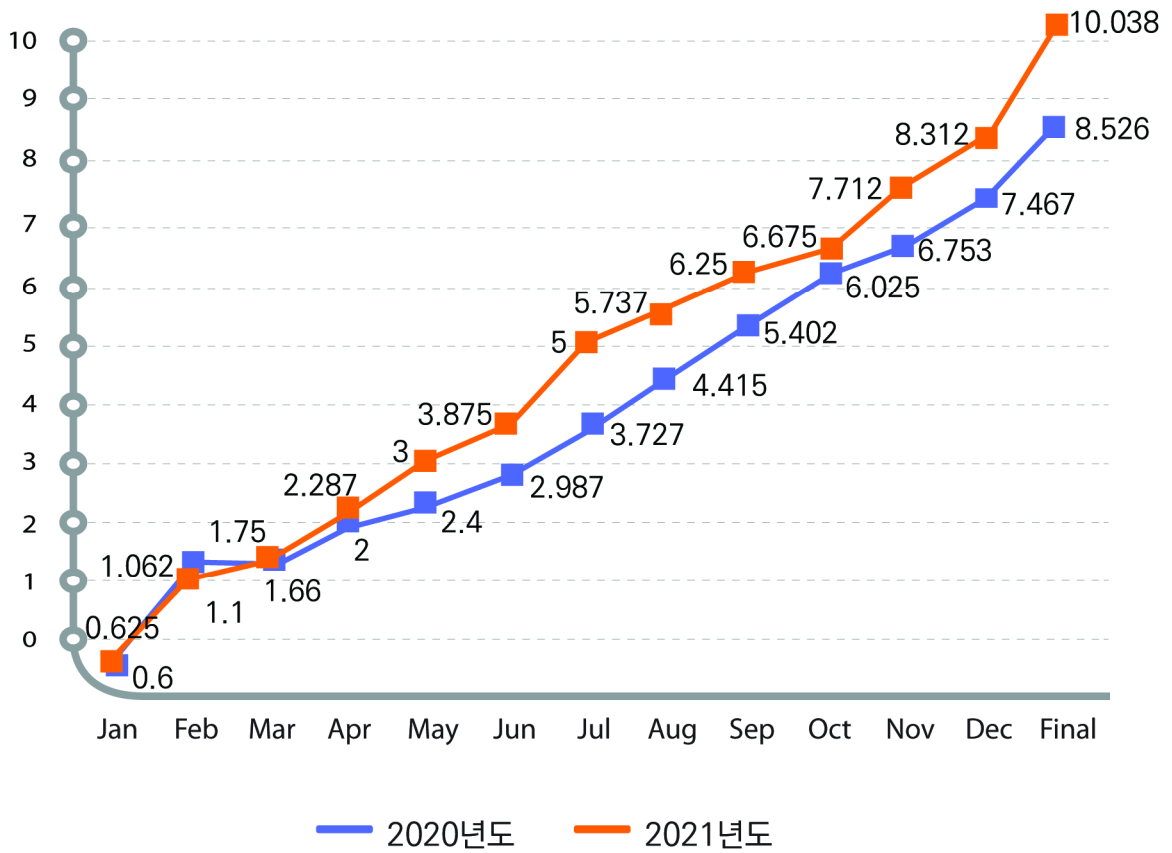
다운로드 및 인용현황

1-2-1. 연도별 다운로드 현황



Y/M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
2014		311	3,339	2,767	2,930	17,191	3,568	3,431	2,889	4,212	4,309	4,822	49,769
2015	5,381	4,298	14,929	5,659	4,829	5,144	5,202	5,726	5,563	7,133	7,445	6,330	77,639
2016	6,948	4,233	5,581	6,161	5,839	5,094	6,386	6,190	6,344	6,498	6,294	6,132	71,700
2017	6,018	6,587	7,941	7,667	16,002	5,586	7,245	8,307	7,754	7,213	7,644	7,669	95,633
2018	8,885	7,217	10,814	8,916	9,741	7,667	9,658	8,615	10,774	7,713	9,052	8,644	107,696
2019	9,270	8,141	11,231	12,219	12,057	10,666	14,271	12,146	13,102	22,575	14,705	14,106	154,489
2020	13,831	14,001	14,349	16,308	18,081	15,170	14,786	13,431	19,794	22,971	17,779	19,628	200,129
2021	22,208	19,762	26,408	25,617	25,908	25,197	26,523	28,907	32,807	36,399	37,523	34,552	341,811

1-2-2. 연도별 IF 증가추이



JCR announced on	Based on	Impact Factor
June 30, 2021	2020 data	$\frac{648 \text{ citations 2020}}{76 \text{ publications 2018-2019}} = 8.526$
June 28, 2022	2021 data	$\frac{793 \text{ citations 2021}}{79 \text{ publications 2019-2020}} = 10.038$

1-3

Thematic Series 출판

1-3-1. Thematic Series 출판실적

Thematic Series 출판 개요

- 개요 : 최근 주목받고 있는 특정 주제에 관한 논문을 시리즈 형태로 출판
- 규모 : 연 16편~18편(4~5 series*4 papers) 내외 출판
- 구성 원칙
 - Editors : NC 편집운영위원, Guest Editor(외부초청)
 - 초청논문 : 국내논문 1~2편/국외논문 2편

2020~2021년도 출판 실적

Series Title	Novel Nanotechnology-based Medical Toolkits	
Description	With the advent of nanotechnology, a variety of synthetic nanomaterials, which possess unique and excellent physicochemical properties not observed earlier, have been manufactured afresh. In addition, innovative nanomaterial-based techniques have been also developed rapidly and applied devotedly into several practical applications. Especially, they're greatly accredited as a principal revenue for hands-on uses of a few medicines by providing surprising powers to act against (i.e., prognosis and remedy) many unsubjected diseases. Owing to the increasing significances of new nanotechnology-based toolkits as engaged with medicine, we have prepared and here present an interesting thematic series revealing their updated tremendous advancements, with an appreciative support provided by four highly qualified reviews and selected research papers in the field.	
Edited by	<ul style="list-style-type: none"> • Prof. Soong Ho Um, Sungkyunkwan University, KOREA • Prof. James Moon, University of Michigan, USA • Prof. Seung-Woo Cho, Yonsei University, KOREA • Prof. Yong Taik Lim, Sungkyunkwan University, KOREA 	
Publications	Prof. Yuanzhe Piao, Seoul National University, KOREA	Highly sensitive and selective visual detection of Cr(VI) ions based on etching of silver-coated gold nanorods
	Prof. Shin Heungsoo, Hanyang University, KOREA	Current progress in application of polymeric nanofibers to tissue engineering
	Prof. Tae-kyung Yu, Kyunghee University, KOREA	Facile aqueous-phase synthesis of Ag-Cu-Pt-Pd quadrometallic nanoparticles
	Prof. Soong Ho Um, Sungkyunkwan University, KOREA	Hybrid material of structural DNA with inorganic compound: synthesis, applications, and perspective
		Gold nanoparticle clusters for the investigation of therapeutic efficiency against prostate cancer under near-infrared irradiation
Prof. Ho-Wook Jun, The University of Alabama, USA	High Density Lipoprotein Mimicking Nanoparticles for Atherosclerosis	

Series Title	Advance in Photonic Devices Scaling Down to the Nanoscale	
Description	Our Series focuses on the recent advances in photonic devices to achieve in the deep sub-wavelength nanoscale. We cover deep sub-wavelength nanophotonics, plasmonics, metamaterials, quantum/topological optical materials as well as various nanofabrication techniques. Such contributions will make the first step for current nanoscale optics and photonics from the scientific understanding and fundamentals to practical real-life technologies.	
Edited by	<ul style="list-style-type: none"> • Prof. Junsuk Rho, Pohang University of Science and Technology, KOREA • Prof. Daeho Lee, Gachon University, KOREA 	
Publications	Prof. Zi Jing Wong, Texas A&M University, USA	Soft Optical Metamaterials
	Prof. Daeho Lee, Gachon University, KOREA	Laser digital patterning of conductive electrodes using metal oxide nanomaterials
	Prof. Junsuk Rho, Pohang University of Science and Technology, KOREA	Deep Q-network to produce polarization-independent perfect solar absorbers: a statistical report
	Prof. Yongmin Liu, Northeastern University, USA	Ultrafast optical manipulation of magnetic order in ferromagnetic materials

Series Title	Sustainable Hydrogen Production	
Description	Converting renewable energy or materials into non-polluting fuels is a major challenge. Hydrogen (H ₂) is a clean and renewable energy source as primary alternatives to fossil fuels. A highly promising study is (photo)catalytic to produce H ₂ through appropriate chemical reactions. H ₂ can be produced from a variety of primary or renewable sources such as water, natural gas, and lignocellulosic biomass. Papers in this thematic series will introduce and review recent advances in the development of eco-friendly process for hydrogen production specifically by utilizing the catalytic water splitting, photochemical devices, and lignocellulosic biomass.	
Edited by	<ul style="list-style-type: none"> • Prof. Gyu Leem, SUNY ESF, USA 	
Publications	Prof. Gyu Leem, SUNY ESF, USA	Photocatalytic hydrogen evolution from biomass conversion
	Prof. Chuan-Jian Zhong, State University of New York at Binghamton, USA	Hydrogen Production from Water Electrolysis: Role of Catalysts
	Prof. Benjamin Sherman, Texas Christian University, USA	Sustainable hydrogen production from water using tandem dye-sensitized photoelectrochemical cells

Series Title	Organs-on-a-chip for nanoscience and technology	
Description	Organs-on-a-chip and microphysiological systems provide new opportunities to create microengineered in vitro models of complex human physiological systems with unprecedented realism and predictive capacity. With the rapid evolution of this disruptive technology, increasing attention is being paid to its potential as a novel platform to enable and facilitate research in nanoscience and engineering. Conversely, efforts are underway to leverage nanoengineering techniques to advance the capabilities of organ-on-a-chip systems for a variety of biomedical applications. Motivated by these emerging trends, this special issue aims to introduce recent interdisciplinary research efforts directed towards the convergence of organ-on-a-chip with nanotechnology.	
Edited by	• Prof. Dongeun (Dan) Huh, University of Pennsylvania, USA	
Publications	Prof. Kyung Hyun Choi, Jeju National University, KOREA	Real-Time Monitoring of Liver Fibrosis Through Embedded Sensors in a Microphysiological System
	Prof. YongTae Kim, Georgia Institute of Technology, USA	Microvascularized tumor organoids-on-chips: advancing preclinical drug screening with pathophysiological relevance
	Prof. Dongeun (Dan) Huh, University of Pennsylvania, USA	Organs-on-chips for nanoparticle research

Series Title	Recent Research Trend on 2D Transition Metal Carbides or Carbonitrides MXene Nanomaterials	
Description	MXenes are newly emerging two-dimensional (2D) nanomaterials. MXenes are transition metal carbides, nitrides, and/or carbonitrides with the general formula $M_n+1X_nT_x$, where M is an early transition metal (e.g., Ti, Zr, V, Nb, Ta, or Mo), X is carbon and/or nitrogen, and T_x represents the functional groups on the surface. Since the discovery at Drexel University in 2011, MXenes have received immense attention in the areas of energy storage, electromagnetic interference shielding, antennas, transparent conductors, sensors, membranes, catalysis and medicine, due to their many advantages including the outstanding metallic conductivity, low density, large specific surface area, tunable surface chemistry, and solution processability. This thematic series aim to introduce the latest research trend of the synthesis of MXenes and their representative applications including electrochemical energy storage and EMI shielding.	
Edited by	• Dr. Chong Min Koo, Korea Institute of Science and Technology, KOREA	
Publications	Prof. Bin Xu, Beijing University of Chemical Technology, CHINA	Application of MXenes in Environmental Remediation Technologies
	Dr. Chong Min Koo, Korea Institute of Science and Technology, KOREA	Improving oxidation stability of 2D MXenes: synthesis, storage media, and conditions
	Prof. Babak Anasori, Indiana University-Purdue University Indianapolis, USA	2D Transition Metal Carbides (MXenes) in Metal and Ceramic Matrix Composites

Series Title	Nanotechnology Enabled Battery Breakthrough	
Description	Nanotechnology gives us a new opportunity to solve the chronic issues that cannot be solved in traditional material design and fabrication process for next-generation battery. Along with rapid expansion of electric vehicles market, intensive attention is being paid to exploit nanostructured materials and nanotechnology for addressing various technical issues of batteries for electric vehicle applications. Recently we have indeed witnessed that nanotechnology provides a potential solution to some key challenges of next-generation battery systems. Motivated by these trends, this issue aims to introduce recent research efforts towards battery technology breakthrough driven by nanotechnology.	
Edited by	<ul style="list-style-type: none"> • Prof. Min Jae Ko, Hanyang University, KOREA • Prof. Hansu Kim, Hanyang University, KOREA 	
Publications	Prof. Jong Won Lee, Daegu Gyeongbuk Institute of Science and Technology, KOREA	Synergistic nanoarchitecture of mesoporous carbon and carbon nanotubes for lithium-oxygen batteries
	Prof. Jung Ho Kim, University of Wollongong, AUSTRALIA	Stabilizing Li-Metal Host Anode with LiF-Rich Solid Electrolyte Interphase
	Prof. Ki Jae Kim, Konkuk University, KOREA	Permeable characteristics of surface film deposited on LiMn ₂ O ₄ positive electrode revealed by redox-active indicator
	Prof. Yoon Hwa, Arizona State University, USA	Laser-based Three-dimensional Manufacturing Technologies for Rechargeable Batteries

Series Title	Cancer-targeted imaging and therapy	
Description	Cancer is a pivotal medical application of nanotechnology. Nano-scale materials provide unlimited advantages of pinpointed diagnosis by molecular detection of tumor microenvironment and targeted molecular therapy in response to pathological stimuli. Since the key concept of utilizing nanotechnology in cancer diagnosis and therapy was conceived a few decades ago, immense research and development efforts have been invested with relatively little successes. This theme issue will overview the current status and key accomplishment in the field as well as offering perspectives and guides for the next generation nanotechnology in cancer imaging and therapy.	
Edited by	<ul style="list-style-type: none"> • Young Jik Kwon, University of California, Irvine, USA 	
Publications	Prof. Young Jik Kwon, University of California, Irvine, USA	Cancer Nanotechnology: Current Status and Perspectives
	Prof. Jered Haun, University of California, Irvine, USA	Quantifying and controlling bond multivalency for advanced targeting of nanoparticles to cells
	Prof. Adem Yildirim, Oregon Health & Science University, USA	Gas-stabilizing nanoparticles for ultrasound imaging and therapy of cancer
	Prof. Chuanbin Mao, University of Oklahoma, USA	Protein nanoparticles directed cancer imaging and therapy

1-3-2. 학회 연계 Thematic Series 출판실적

학회 연계 Thematic Series 출판 개요

- 목적 : 국제학술대회 연계 출판을 통해 국내외 유수의 초청연사 연구 논문 확보
- 출판 원칙 : 초청연사 논문만 투고 받아, peer-review를 거쳐 출판

2020~2021년도 연계 실적

Conference	The 12 th International Conference on Advanced Materials and Devices (ICAMD 2021)	
Description	The 12 th International Conference on Advanced Materials and Devices (ICAMD 2019) will be held from December 6 th to December 10 th , 2021 at Ramada Plaza Jeju Hotel, Jeju, Korea. It is organized by the Applied Physics Division of the Korean Physical Society. The International Conference on Advanced Materials and Devices (ICAMD) is one of the major international conferences hosted by the Korean Physical Society, gathering physicists from around the world in the field of applied physics including 2D van der Waals Materials, Nanomaterials / Nanodevices / Nanotools, Organic Electronics and Photonics, Oxide Heterostructures and Neuromorphic Devices, Energy Materials and Devices, Photonics / Plasmonics and Metamaterials, Spintronics and Magnetic Materials, Medical Physics / Bioelectronics and Biophotonics, Quantum Information and Mesoscopic Devices, Applied Computation, and Surfaces and Interfaces. The purpose of ICAMD 2021 is to provide a forum to review the most important and latest developments in the field of applied physics, to exchange updated research achievements and future trends in applied physics, to promote the application of physics related to the development, and to provide potential collaboration opportunities in all regions of the world.	
Publications	Prof. Yong-Hoon Kim, KAIST, KOREA	Quantum hybridization negative differential resistance from non-toxic halide perovskite nanowire heterojunctions and its strain control

Conference	The 18 th & 19 th International Nanotech Symposium & Exhibition (NANO KOREA 2020 & 2021)	
Description	NANO KOREA Symposium, the Korea's largest symposium on the nanoscale science and technology, is meaningful occasion to confirm major research results and up-to-date research trends in Korea and overseas. NANO KOREA Symposium is annually consisted of advanced programs along with the main theme of major topics in Nanotechnology. The symposium programs will cover all aspects of nanoscience and nanotechnology such as Nano Energy Harvesting, Nanotechnology for Solar and Hydrogen Energy, Nanobiotechnology, Nanomedicine, Nanoelectronic Devices, Nanophotonics, Nano Metrology & Characterization, Nano-EHS and Standardization of Nanotechnology, AI and Computational Science for Nanotechnology. NANO KOREA Symposium Special Issue will contain research results and the reviews about the most important and latest developments and future trends or visions for the convergence of various technologies from nano to microscopic scale.	
Publications	Prof. Byung-Keun Oh, Sogang University, KOREA	Electrochemical H ₂ O ₂ biosensor based on horseradish peroxidase encapsulated protein nanoparticles with reduced graphene oxide-modified gold electrode
	Prof. Jeong Ho Cho, Yonsei University, KOREA	Electroplated Core-Shell Nanowire Network Electrodes for Highly Efficient Organic Light-Emitting Diode
	Prof. Nam-Joon Cho, Nanyang Technological University, SINGAPORE	Fabrication of air-stable supported lipid bilayer incorporating sucrose-bicelle complex system

인용 현황

기타 활동

편집위원회의

PART
II

인용현황

2-1. 논문별 인용 분석

- 2-1-1. 논문별 피인용현황
- 2-1-2. 분야별 IF
- 2-1-3. 국가별 인용현황
- 2-1-4. 출판 연도별 최다 피인용 논문

2-2. 초청논문 인용 분석

- 2-2-1. 초청논문 출판편수 대비 인용현황
- 2-2-2. Thematic Series 인용현황



2

인용현황

2-1

논문별 인용 분석

2-1-1. 논문별 피인용현황

※ 대상논문 : 2020-2021년도 출판 논문

Year	Author	Article Title	Google	SCIE
2020	Prof. Soong Ho Um (Sungkyunkwan University, KOREA)	Hybrid material of structural DNA with inorganic compound: synthesis, applications, and perspective	8	7
2020	Prof. Ki-Bum Kim (Seoul National University, KOREA)	Direct electrophoretic microRNA preparation from clinical samples using nanofilter membrane	6	4
2020	Prof. Chang-Won Lee (Hanbat National University, KOREA)	Tunable metasurfaces for visible and SWIR applications	25	20
2020	Prof. Ho-Wook Jun (The University of Alabama, USA)	High density lipoprotein mimicking nanoparticles for atherosclerosis	21	18
2020	Prof. Kyunghoon Kim (Sungkyunkwan University, KOREA)	Recycling performance of graphene oxide-chitosan hybrid hydrogels for removal of cationic and anionic dyes	23	19
2020	Prof. Soong Ho Um (Sungkyunkwan University, KOREA)	Gold nanoparticle clusters for the investigation of therapeutic efficiency against prostate cancer under near-infrared irradiation	17	13
2020	Prof. Young Min Jo (Kyung Hee University, KOREA)	TEPA impregnation of electrospun carbon nanofibers for enhanced low-level CO ₂ adsorption	4	4
2020	Prof. Zhiyu Hu (Shanghai Jiao Tong University, CHINA)	Ultrathin MEMS thermoelectric generator with Bi ₂ Te ₃ /(Pt, Au) multilayers and Sb ₂ Te ₃ legs	8	5
2020	Prof. Dong Hwan Wang (Chung-Ang University, KOREA)	Selective Soxhlets extraction to enhance solubility of newly-synthesized poly(indoloindole-selenophene vinylene selenophene) donor for photovoltaic applications	3	3
2020	Prof. Bong Geun Chung (Sogang University, KOREA)	rGO nanomaterial-mediated cancer targeting and photothermal therapy in a microfluidic co-culture platform	18	17
2020	Dr. Mohammadreza shokouhimehr (Seoul National University, KOREA)	Electrochemical activity of Samarium on starch-derived porous carbon: rechargeable Li- and Al-ion batteries	11	11
2020	Prof. Chengkuo Vincent Lee (National University of Singapore, SINGAPORE)	Progress of Infrared Guided-Wave Nanophotonic Sensors and Devices	44	31

출판 실적

제2장

인용현황

기타 활동

편집인명위원회

2020	Dr. Jin Young Jeong (Korea Research Institute of Bioscience and Biotechnology, KOREA)	Simple, rapid, and accurate malaria diagnostic platform using microfluidic-based immunoassay of Plasmodium falciparum lactate dehydrogenase	4	3
2020	Dr. Xugang shu (Zhongkai University of Agriculture and Engineering, CHINA)	Lipid-coated ZnO Nanoparticles Synthesis, Characterization and Cytotoxicity studies in Cancer cell	13	12
2020	Dr. Mahmoud Hussein Abdo (King Abdulaziz University, SAUDI ARABIA)	Nanosheet Composed of Gold nanoparticle/Graphene/Epoxy Resin based on Ultrasonic Fabrication for Flexible Dopamine Biosensor using Surface-Enhanced Raman Spectroscopy	17	16
2020	Prof. Seungjoo Haamm (Yonsei University, KOREA)	Inner structure- and surface- controlled hollow MnO Nanocubes for high sensitive MR imaging contrast effect	4	3
2020	Prof. Oleg Lunov (Institute of Physics of the Czech Academy of Sciences Prague, CZECH REPUBLIC)	Progressive lysosomal membrane permeabilization induced by iron oxide nanoparticles drives hepatic cell autophagy and apoptosis	13	10
2020	Prof. Zi Jing Wong (Texas A&M University, USA)	Soft Optical Metamaterials	24	19
2020	Prof. Changhwan Shin (Sungkyunkwan University, KOREA)	Study of a Hysteresis Window of FinFET and Fully-depleted Silicon-On-Insulator (FDSOI) MOSFET with Ferroelectric Capacitor	16	15
2020	Prof. Yuanzhe Piao (Seoul National University, KOREA)	Magnetic and near-infrared derived heating characteristics of dimercaptosuccinic acid coated uniform Fe@Fe ₃ O ₄ core-shell nanoparticles	7	4
2020	Dr. Xiangming He (Tsinghua University, CHINA)	A Polymeric Composite Protective Layer for Stable Li Metal Anodes	8	8
2020	Prof. Tae-sik Oh (Auburn Univ., USA)	Low temperature CO oxidation by doped cerium oxide electrospun fibers	0	0
2020	Prof. Daeho Lee (Gachon University, KOREA)	Laser digital patterning of conductive electrodes using metal oxide nanomaterials	18	15
2020	Prof. Jong G. Ok (Seoul National University of Science and Technology, KOREA)	Low-temperature large-area fabrication of ZnO nanowires on flexible plastic substrates by solution-processible metal-seeded hydrothermal growth	8	7
2020	Prof. Renmin Ma (Peking University, CHINA)	Growth of centimeter size perovskite single-crystalline thin film via surface engineering	16	9
2020	Prof. Junsuk Rho (Pohang Univ. of Science and Technology, KOREA)	Deep Q-network to produce polarization-independent perfect solar absorbers: a statistical report	5	4
2020	Dr. Mohamed Shuaib (Universiti Teknologi PETRONAS Seri Iskandar, MALAYSIA)	Graphene Impregnated Electrospun Nanofiber Sensing Materials: A Comprehensive Overview on Bridging Laboratory Set-up to Industry	22	14
2020	Prof. Shin-Won Kang (Kyungpook National University College of IT Engineering, KOREA)	Air-stable and ultrasensitive solution-cast SWIR photodetectors utilizing modified core/shell colloidal quantum dots	5	4
2020	Dr. Kyoung G. Lee (National NanoFab Center Daejeon, KOREA)	Flexible nanopillar-based immuno electrochemical biosensor for noninvasive early detection of Alzheimer's disease	6	6

2020	Prof. Hyuncheol Kim (Sogang University, KOREA)	Overcoming anticancer resistance by photodynamic therapy-related efflux pump deactivation and ultrasound-mediated improved drug delivery efficiency	5	3
2020	Prof. Rino Choi (Inha University, KOREA)	Double-Gate Thin Film Transistor with Suspended-Gate Applicable to Tactile Force Sensor	13	12
2020	Prof. Luyi Sun (University of Connecticut, USA)	Perovskite Oxides as Transparent Semiconductors: a Review	17	16
2020	Prof. Ravinder Dahiya (University of Glasgow, UK)	High-Performance Printed Electronics based on Inorganic Semiconducting Nano to Chip Scale Structures	30	17
2020	Prof. Suk Ho Bhang (Sungkyunkwan University, KOREA)	Regulation of intracellular transition metal ion level with a pH-sensitive inorganic nanocluster to improve therapeutic angiogenesis by enriching conditioned medium retrieved from human adipose derived stem cells	5	5
2020	Prof. Yongmin Liu (Northeastern University, USA)	Ultrafast optical manipulation of magnetic order in ferromagnetic materials	14	12
2020	Prof. Kyunghoon Kim (Sungkyunkwan University, KOREA)	A short review: Heavy metal removal applications using adsorptive membranes	36	25
2020	Prof. Dong Ryeol WHANG (Hannam University, KOREA)	Immobilization of Molecular Catalysts for Artificial Photosynthesis	4	3
2020	Prof. Joseph Irudayaraj (University of Illinois at Urbana Champaign, USA)	Nano Drug Delivery Systems in Upper Gastrointestinal Cancer Therapy	6	4
2020	Prof. Byung-Keun Oh (Sogang University, KOREA)	Electrochemical H ₂ O ₂ biosensor based on horseradish peroxidase encapsulated protein nanoparticles with reduced graphene oxide-modified gold electrode	12	10
2020	Prof. Tae-Hyung Kim (Chung-Ang University, KOREA)	Recent advances in nanomaterial-modified electrical platforms for the detection of dopamine in living cells	5	5
2021	Prof. Idan Hod (Katz Institute for Nanoscale Science and Technology, ISRAEL)	Metal-organic framework derived nanomaterials for electrocatalysis: recent developments for CO ₂ and N ₂ reduction	13	11
2021	Prof. Xiangming He (Tsinghua University, CHINA)	PEO based polymer-ceramic hybrid solid electrolytes: a review	22	21
2021	Prof. Kyung Hyun Choi (Jeju National University, KOREA)	Real-time monitoring of liver fibrosis through embedded sensors in a microphysiological system	7	3
2021	Prof. Chuan-Jian Zhong (State University of New York at Binghamton, USA)	Hydrogen production from water electrolysis: role of catalysts	51	39
2021	Prof. Bin Xu (Beijing University of Chemical Technology, CHINA)	Application of MXenes in environmental remediation technologies	15	14
2021	Prof. Gyu Leem (SUNY ESF, USA)	Photocatalytic hydrogen evolution from biomass conversion	15	14
2021	Prof. Benjamin D. Sherman (Texas Christian University, USA)	Sustainable hydrogen production from water using tandem dye-sensitized photoelectrochemical cells	3	3

출판 실적

제2장

인용 현황

기타 활동

편집위원위원회

2021	Prof. Michael S. Wong (Rice University, USA)	Nano-structural effects on Hematite (α -Fe ₂ O ₃) nanoparticle radiofrequency heating	4	3
2021	Prof. Chong Min Koo (Korea Institute of Science and Technology, KOREA)	Improving oxidation stability of 2D MXenes: synthesis, storage media, and conditions	19	16
2021	Prof. Shulian Jiang (Nanjing University of Chinese Medicine, CHINA)	Ultrasmall iron oxide nanoparticles induced ferroptosis via Beclin1/ATG5-dependent autophagy pathway	8	4
2021	Prof. Ho Won Jang (Seoul National University, KOREA)	Microscopic evidence of strong interactions between chemical vapor deposited 2D MoS ₂ film and SiO ₂ growth template	8	6
2021	Prof. YongTae Kim (Seoul National University, KOREA)	Microvascularized tumor organoids-on-chips: advancing preclinical drug screening with pathophysiological relevance	12	9
2021	Prof. Despina P. Kalogianni (University of Patras, GREECE)	Nanotechnology in emerging liquid biopsy applications	6	5
2021	Prof. Gengfeng Zheng (Fudan University, CHINA)	Promoting N ₂ electroreduction to ammonia by fluorine-terminating Ti ₃ C ₂ T _x MXene	4	3
2021	Prof. Seunghyun Lee (Hanyang University, KOREA)	Improvement of the thermal stability of dendritic silver-coated copper microparticles by surface modification based on molecular self-assembly	2	2
2021	Prof. Babak Anasori (Indiana University-Purdue University Indianapolis, USA)	2D transition metal carbides (MXenes) in metal and ceramic matrix composites	5	4
2021	Prof. Jong Won Lee (Daegu Gyeongbuk Institute of Science and Technology, KOREA)	Synergistic nanoarchitecture of mesoporous carbon and carbon nanotubes for lithium-oxygen batteries	1	1
2021	Prof. Jung Ho Kim (University of Wollongong, AUSTRALIA)	Stabilizing Li-metal host anode with LiF-rich solid electrolyte interphase	3	3
2021	Prof. Sungsu Park (Sungkyunkwan University, KOREA)	Probing mechanobiological role of filamin A in migration and invasion of human U87 glioblastoma cells using submicron soft pillars	1	1
2021	Prof. Dongeun (Dan) Huh (University of Pennsylvania, USA)	Organ-on-a-chip technology for nanoparticle research	5	5
2021	Prof. Ki Jae Kim (Konkuk University, KOREA)	Permeable characteristics of surface film deposited on LiMn ₂ O ₄ positive electrode revealed by redox-active indicator	0	0
2021	Prof. Youn Jeong Jang (Hanyang University, KOREA)	Rational design of photocatalysts for ammonia production from water and nitrogen gas	0	0
2021	Prof. Yoon Hwa (Arizona State University, USA)	Laser-based three-dimensional manufacturing technologies for rechargeable batteries	1	1
2021	Prof. Chun Gwon Park (Sungkyunkwan University, KOREA)	Impact of the conjugation of antibodies to the surfaces of polymer nanoparticles on the immune cell targeting abilities	1	1
2021	Prof. Gun Young Jung (Gwangju Institute of Science and Technology, KOREA)	Omni-directional wind-driven triboelectric nanogenerator with cross-shaped dielectric film	2	2

2021	Prof. Emilie Ringe (University of Cambridge, UK)	Approaches to modelling the shape of nanocrystals	2	2
2021	Prof. Miso Kim (Sungkyunkwan University, KOREA)	Double defects-induced elastic wave coupling and energy localization in a phononic crystal	2	2
2021	Prof. Soo Young Kim (Korea University, KOREA)	WS ₂ -WC-WO ₃ nano-hollow spheres as an efficient and durable catalyst for hydrogen evolution reaction	0	0
2021	Prof. Xiuhua Yang (The First Affiliated Hospital of Harbin Medical University, CHINA)	PFP@PLGA/Cu ₁₂ Sb ₄ S ₁₃ -mediated PTT ablates hepatocellular carcinoma by inhibiting the RAS/MAPK/MT-CO ₁ signaling pathway	0	0
2021	Dr. Kyoung G. Lee (National NanoFab Center Daejeon, KOREA)	Touchable 3D hierarchically structured polyaniline nanoweb for capture and detection of pathogenic bacteria	0	0
2021	Prof. Junhong Min (Chung-Ang University, KOREA)	Discrimination and isolation of the virus from free RNA fragments for the highly sensitive measurement of SARS-CoV-2 abundance on surfaces using a graphene oxide nano surface	3	3
2021	Prof. Yong Shin (Yonsei University, KOREA)	Diatomaceous earth/zinc oxide micro-composite assisted antibiotics in fungal therapy	0	0
2021	Prof. Young Jik Kwon (University of California, USA)	Cancer nanotechnology: current status and perspectives	2	1
2021	Prof. Bong Guen Chung (Sogang University, KOREA)	Effect of biochemical and biomechanical factors on vascularization of kidney organoid-on-a-chip	3	3
2021	Dr. Sehoon Kim (Korea Institute of Science and Technology, KOREA)	Metal complexation-mediated stable and biocompatible nanoformulation of clinically approved near-infrared absorber for improved tumor targeting and photonic theranostics	0	0
2021	Prof. Jered Haun (University of California, Irvine, USA)	Quantifying and controlling bond multivalency for advanced nanoparticle targeting to cells	0	0
2021	Prof. Yanen Wang (Northwestern Polytechnical University, USA)	Additively manufactured nano-mechanical energy harvesting systems: advancements, potential applications, challenges and future perspectives	0	0
2021	Prof. Adem Yildirim (Oregon Health & Science University, USA)	Gas-stabilizing nanoparticles for ultrasound imaging and therapy of cancer	0	0
2021	Prof. Stefano Palomba (The University of Sydney, AUSTRALIA)	Integrated enhanced Raman scattering: a review	1	0
2021	Prof. Byung-Keun Oh (Sogang University, KOREA)	Nano-sized graphene oxide coated nanopillars on microgroove polymer arrays that enhance skeletal muscle cell differentiation	0	0
총합			742	595
평균			9.2	7.4

출판 실적

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인용 현황

기타 활동

편집위원 위원회

2-1-2. 분야별 IF

분야/IF연도	2020년도			2021년도		
	산출식(회/편)		분야별 IF	산출식(회/편)		분야별 IF
NE	85/6	=	14.17	126/5	=	25.20
NP	128/18	=	7.11	54/12	=	4.50
NM	100/14	=	7.14	147/17	=	8.65
EE	9/2	=	4.50	25/4	=	6.25
FC	42/7	=	6.00	27/4	=	6.75
BM	211/27	=	7.81	261/32	=	8.16
EN	37/3	=	12.33	56/6	=	9.33
합계·평균	612/77		8.44	696/80		9.83

※ 분야별 IF 산출식 =
$$\frac{\text{IF 연도 기준으로 지난 2년간 출판된 분야별 NC논문이 IF연도에 출판된 SCIE저널 논문에 피인용된 횟수}}{\text{IF 연도 기준으로 지난 2년간 출판된 분야별 NC논문 편 수}}$$

※ 위 수치는 'google scholar'에서 조사하여 산출한 것으로, 'Journal Citation Report(Clarivate)'에서 발표된 수치와 다를 수 있음

2-1-3. 국가별 인용현황

※ 국가 : 교신저자 소속 기준
※ 대상논문 : 2020-2021년도 출판 논문

No.	국가	Google	SCIE
1	Korea	225	192
2	China	145	124
3	India	53	47
4	USA	48	34
5	UK	32	17
6	Italy	19	17
7	Singapore	17	13
8	Germany	13	12
9	Japan	12	11
10	Malaysia	12	9
11	Iran	11	8
12	Brazil	12	7
13	Spain	10	7
14	Russia	8	7
15	Taiwan	7	7
16	France	9	6
17	Czech Republic	6	6
18	Poland	8	5

19	Saudi Arabia	6	5
20	Canada	6	4
21	Israel	6	4
22	Switzerland	5	4
23	Australia	4	4
24	Sweden	4	4
25	Finland	4	3
26	Pakistan	4	3
27	Greece	3	3
28	Ireland	3	3
29	South Africa	3	3
30	Mexico	3	2
31	Thailand	3	2
32	Turkey	3	2
33	Denmark	2	2
34	Portugal	2	2
35	Serbia	2	2
36	Romania	2	1
37	Algeria	1	1
38	Chile	1	1
39	Ecuador	1	1
40	Egypt	1	1
41	Indonesia	1	1
42	Kazakhstan	1	1
43	kuwait	1	1
44	Latvia	1	1
45	Netherlands	1	1
46	Norway	1	1
47	Oman	1	1
48	Slovenia	1	1
49	Vietnam	1	1
50	United Arab Emirates	2	
51	Austria	1	
52	Bahrain	1	
53	Belgium	1	
54	Iraq	1	
55	Lebanon	1	
56	New Zealand	1	
57	Tarkwa	1	
총합계		734	595

출판 실적

제2장

인용 현황

기타 활동

편집운영위원회

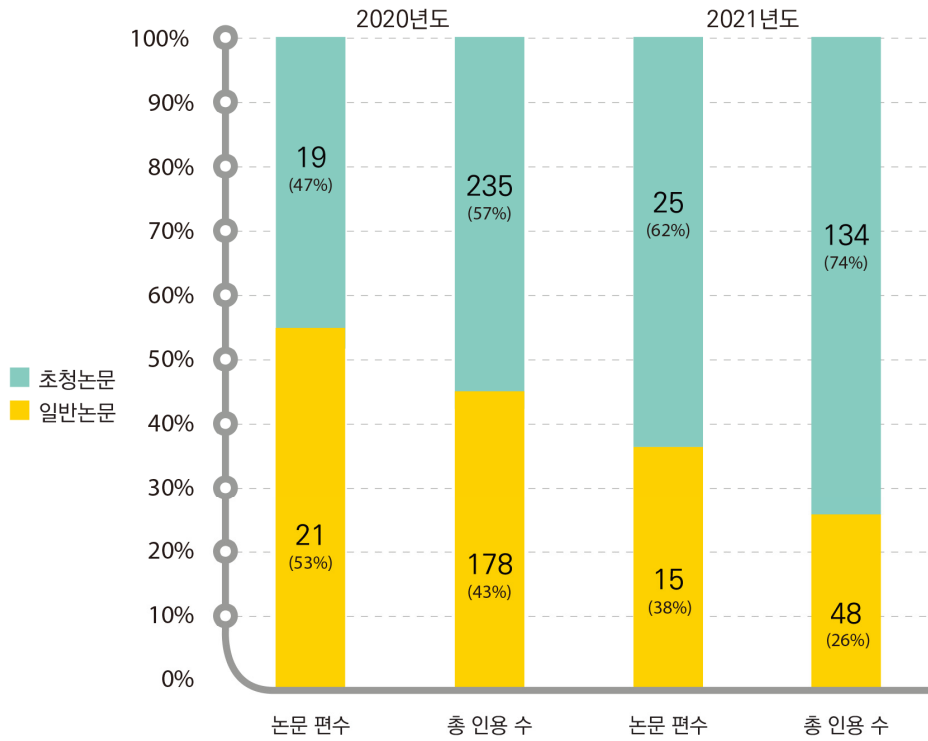
2-1-4. 출판 연도별 최다 피인용 논문

Year	Author	Article Title	SCIE 인용수
2020	Prof. Chengkuo Vincent Lee (National University of Singapore, SINGAPORE)	Progress of Infrared Guided-Wave Nanophotonic Sensors and Devices	31
	Prof. Kyunghoon Kim (Sungkyunkwan University, KOREA)	A short review: Heavy metal removal applications using adsorptive membranes	25
	Prof. Chang-Won Lee (Hanbat National University, KOREA)	Tunable metasurfaces for visible and SWIR applications	20
	Prof. Kyunghoon Kim (Sungkyunkwan University, KOREA)	Recycling performance of graphene oxide-chitosan hybrid hydrogels for removal of cationic and anionic dyes	19
	Prof. Zi Jing Wong (Texas A&M University, USA)	Soft Optical Metamaterials	19
2021	Prof. Chuan-Jian Zhong (State University of New York at Binghamton, USA)	Hydrogen production from water electrolysis: role of catalysts	39
	Dr. Xiangming He (Tsinghua University, CHINA)	PEO based polymer-ceramic hybrid solid electrolytes: a review	21
	Dr. Chong Min Koo (Korea Institute of Science and Technology, KOREA)	Improving oxidation stability of 2D MXenes: synthesis, storage media, and conditions	16
	Prof. Bin Xu (Beijing University of Chemical Technology, CHINA)	Application of MXenes in environmental remediation technologies	14
	Prof. Gyu Leem (SUNY ESF, USA)	Photocatalytic hydrogen evolution from biomass conversion	14

2-2

초청논문 인용 분석

2-2-1. 초청논문 출판편수 대비 인용현황



출판연도	구분	일반논문	초청논문	합 계
2020년	논문 편수	21	19	40
	총 인용 수	178	235	413
2021년	논문 편수	15	25	40
	총 인용 수	48	134	182

2-2-2. Thematic Series 인용현황

※ 연도별 편당 인용 평균: 19.38(2019년도)/8.6(2020년도)/1.93(2021년도)

Series Title [Scope]	Year	Article Title	논문별 인용	인용 합계	편당 인용
Novel Nanotechnology-based Medical Toolkits [BM]	2019	Highly sensitive and selective visual detection of Cr(VI) ions based on etching of silver-coated gold nanorods	14	109	18.17
		Current progress in application of polymeric nanofibers to tissue engineering	61		
		Facile aqueous-phase synthesis of Ag-Cu-Pt-Pd quadrometallic nanoparticles	5		
	2020	Hybrid material of structural DNA with inorganic compound: synthesis, applications, and perspective	3		
		Gold nanoparticle clusters for the investigation of therapeutic efficiency against prostate cancer under near-infrared irradiation	12		
		High Density Lipoprotein Mimicking Nanoparticles for Atherosclerosis	14		
Advance in Photonic Devices Scaling Down to the Nanoscale [NP]	2020	Soft Optical Metamaterials	15	43	10.75
		Laser digital patterning of conductive electrodes using metal oxide nanomaterials	13		
		Deep Q-network to produce polarization-independent perfect solar absorbers: a statistical report	3		
		Ultrafast optical manipulation of magnetic order in ferromagnetic materials	12		
Sustainable Hydrogen Production [EE]	2021	Photocatalytic hydrogen evolution from biomass conversion	6	26	8.67
		Hydrogen Production from Water Electrolysis: Role of Catalysts	18		
		Sustainable hydrogen production from water using tandem dye-sensitized photoelectrochemical cells	2		
Organs-on-a-chip for nanoscience and technology [BM]	2021	Real-Time Monitoring of Liver Fibrosis Through Embedded Sensors in a Microphysiological System	1	9	3
		Microvascularized tumor organoids-on-chips: advancing preclinical drug screening with pathophysiological relevance	4		
		Organs-on-chips for nanoparticle research	4		

Recent Research Trend on 2D Transition Metal Carbides or Carbonitrides MXene Nanomaterials [NM]	2021	Application of MXenes in Environmental Remediation Technologies	7	17	5.67
		Improving oxidation stability of 2D MXenes: synthesis, storage media, and conditions	7		
		2D Transition Metal Carbides (MXenes) in Metal and Ceramic Matrix Composites	3		
Nanotechnology Enabled Battery Breakthrough [EE]	2021	Synergistic nanoarchitecture of mesoporous carbon and carbon nanotubes for lithium-oxygen batteries	1	2	0.5
		Stabilizing Li-Metal Host Anode with LiF-Rich Solid Electrolyte Interphase	1		
		Permeable characteristics of surface film deposited on LiMn ₂ O ₄ positive electrode revealed by redox-active indicator	0		
		Laser-based Three-dimensional Manufacturing Technologies for Rechargeable Batteries	0		
Cancer-targeted imaging and therapy [BM]	2021	Cancer Nanotechnology: Current Status and Perspectives	1	1	0.33
		Quantifying and controlling bond multivalency for advanced targeting of nanoparticles to cells	0		
		Gas-stabilizing nanoparticles for ultrasound imaging and therapy of cancer	0		

출판 실적

제2장

인용 현황

기타 활동

편집운영위원회

PART
III

기타활동

3-1. 학술행사 홍보

- 3-1-1. ENGE 2020
- 3-1-2. ICAMD 2021
- 3-1-3. 2021 MRS Fall Meeting & Exhibition

3-2. Nano Convergence Award 시상

- 3-2-1. 시상개요
- 3-2-2. 시상결과

3-3. Nano Convergence Special Session 개최

- 3-3-1. 개최개요
- 3-3-2. 개최결과

3-4. Nature Conference 개최

- 3-4-1. 개최개요
- 3-4-2. 개최의의
- 3-4-3. 추진체계
- 3-4-4. 프로그램
- 3-4-5. 현장사진



3

기타활동

3-1

학술행사 홍보

3-1-1. ENGE 2020

행사개요

- 행사명 : The 6th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2020)
- 일시/장소 : 2020년 11월 1일(일)~4일(수)/라마다 프라자 호텔(제주)
- 개최형식 : 온·오프라인 하이브리드
- 주최 : 대한금속·재료학회
- 분야 : 전자재료 및 나노구조 형성 기술
- 예상 개최규모 : 약 1,300명 참석, 연구 성과 약 1,100편 발표

홍보 결과



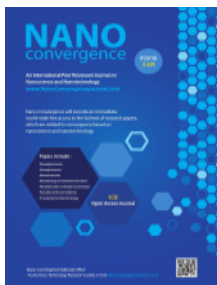
현수막 광고(로고)



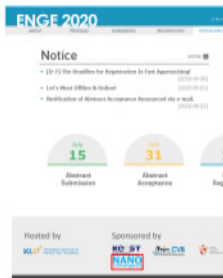
현장 제작물(로고)



논문모음집 현장 배포



프로그램북 광고



홈페이지 광고



온라인 세션 화면

3-1-2. ICAMD 2021

행사개요

- 행사명 : The 12th International Conference on Advanced Materials and Devices (ICAMD 2021)
- 일시/장소 : 2021년 12월 6일(월)~10일(금)/라마다 프라자 호텔(제주)
- 개최형식 : 온·오프라인 하이브리드
- 주최 : 한국물리학회 응용물리분과
- 개최규모 : 국내외 연구자 약 1,000명 참석

홍보 결과

E-Exhibition(온라인 전시) 참여

List of Exhibitions



e-Exhibition 홍보(브로셔 게시)

홈페이지 배너 광고

3-1-3. 2021 MRS Fall Meeting & Exhibition

행사개요

- 행사명 : 2021 MRS Fall Meeting & Exhibition
- 일시/장소 : 2021년 11월 28일(일)~12월 10일(금)/미국 보스턴
- 개최형식 : 온·오프라인 하이브리드
- 주 최 : 미국재료학회(Materials Research Society)
- 개최규모 : 약 7,000명 참석

홍보 결과

- Silver(\$3,000) 후원 및 홍보 진행
 - 사전홍보 : 25,000명 발송 e-newsletter 내 로고 삽입, 컨퍼런스 웹사이트 후원페이지 내 로고 삽입
 - 온라인 세션 홍보 : 온라인 플랫폼 내 로고 및 pdf 제작물 게시



후원 기관 안내 페이지 홍보

출판실적

인용현황

제3장

기타 활동

편집위원위원회

3-2 Nano Convergence Award 시상

3-2-1. 시상개요

목적

- 국내외 나노과학기술분야에서 활약하는 연구자 발굴 및 연구성과 소개
- Nano Convergence 저널의 연구실적을 발표할 수 있는 기회 제공

시상명 및 규모

- Nano Convergence 편집위원장 명의로 총 2점 시상
 - Nano Convergence Distinguished Lectureship(Nano Convergence 우수연구자상)
 - Nano Convergence Young Investigator Lectureship(Nano Convergence 젊은 연구자상)

시상위원회 구성

- 위원장 : Nano Convergence 편집위원장
- 위 원 : 실무간사 4인 + 1인(Associate editors 또는 외부전문가)
 - ※ 2021년도 시상위원으로 심우영 편집분과위원장 최종 선정

부문별 수상자격

- Nano Convergence Distinguished Lectureship 부문
 - Nano Convergence 저널에 논문을 출판한 저자
 - 시상년도 12월 31일 기준으로 만 45세 이상인 senior급 우수 연구자
- Nano Convergence Young Investigator Lectureship 부문
 - Nano Convergence 저널에 논문을 출판한 저자
 - 시상년도 12월 31일까지 만 45세 미만인 우수 연구자

심사기준

- 최근 3년 이내 연구 실적(citation 등)
- 나노기술 발전의 기여도
 - ※ 분야·국적 제약 없음

심사방법

- 수상 후보 추천
 - NC 편집위원회 7인의 분과위원장이 수상후보를 2개 부문별로 각각 1인씩 총 2인 추천 (7개 분야에서 2인씩, 총 14인 추천)
 - NC 홈페이지에 1개월 간 수상 후보 추천 공지
 - ※ 자기추천 금지
- 수상자 선정
 - 시상위원회에서 추천서 및 CV를 검토하여 투표를 통해 최종 선정

심사서류

- 추천서(별도양식), 이력서(자유양식)

수상자 혜택

- 수상기념강연 진행 및 강연료 지급
 - 강연료 : (국외) \$1,000 / (국내) 1,000,000원
 - ※ NC Special Session(나노코리아 2021, '21.07.08, 킨텍스 개최)'에서 수상기념강연 진행
- 상패 수여
 - NC Special Session에서 시상식 진행 및 상패 수여
- 논문 초청 진행
 - 수상자에게 review 논문 NC 저널에 투고 요청
 - 원고료 지급 : (국외) \$1,000~\$3,000 지급(*원고료는 편집운영위원회에서 최종 승인)
 - (국내) ₩500,000원

3-2-2. 시상결과

수상자 선정

- 선정 방식 : 시상위원회에서 추천 후보 검토 후 선정
- 진행 일정

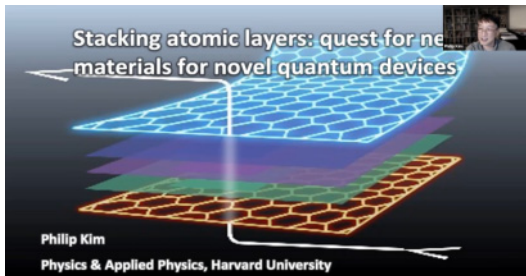
(21.02.19)	시상위원회 kick-off meeting 개최
(~21.03.26)	수상후보 추천(홈페이지 공지 및 편집운영위원회 추천)
(21.04.05)	1차 시상위원회 개최 및 'Distinguished Lectureship' 부문 수상자 선정
(~21.04.16)	'Young Investigator Lectureship' 부문 추가 수상후보 추천
(21.04.20)	2차 시상위원회 개최 및 'Young Investigator Lectureship' 부문 수상자 선정
(21.04.말~)	수상자 초청 진행

○ 수상 후보 및 최종 수상자

부문	수상후보	h-index	추천인	인용	선정
Distinguished Lectureship	Prof. Philip Kim(Harvard Univ., USA)	112	심우영	25	선정
	Prof. Chengkuo Lee(NUS, Singapore)	61	김용호	17	
Young Investigator	Prof. Benjamin C.K. Tee(NUS, Singapore)	31	심우영, 김용호	25	
	Prof. Soongju Oh(Korea Univ., Korea)	29	백태종	19	
	Prof. Woo Young Choi(Sogang Univ., Korea)	24	전상훈	36	
	Prof. Zubin Jacob(Purdue University, USA)	36	노준석	380	
	Prof. Dae-Hyeong Kim(Seoul National Univ., Korea)	72	정봉근	29	
	Prof. Gyu Leem(State Univ. of New York, USA)	15	이승현	13	
	Prof. Ho Won Jang(Seoul National Univ., Korea)	62	심우영	5	
	Prof. Ki Tae Nam(Seoul National Univ., Korea)	54	김태형	16	선정

○ 수상기념강연 진행 및 상패 수여

- 행사명 : Nano Convergence Special Session 2021
- 일시/장소 : '21.07.08(목)/일산 킨텍스 제1전시장



3-3 Nano Convergence Special Session 개최

3-3-1. 개최개요

개최 목적

- 국내 최대 규모의 나노기술분야 국제 심포지엄 ‘나노코리아’의 스페셜 세션을 기획하고 개최함으로써 국내외 연구자들을 대상으로 저널 출판 실적 홍보
- NC저널 시상식 및 수상기념강연 진행을 통해 우수 연구자 발굴 및 연구성과 조명

추진 개요

- 개최 시기 : 매년 7월 첫째주 목요일(나노코리아 개최 시기)
- 개최 장소 : 일산 킨텍스 회의장(나노코리아 개최 장소)
- 프로그램 : 개회식, 시상식, 수상기념강연, 공식 만찬 등

3-3-2. 개최결과

주요 사항

- 행사명 : Nano Convergence Special Session 2021
- 일시/장소 : 2021년 7월 8일(목) 14:30~17:30/일산 킨텍스 제1전시장 213호
- 개최형태 : 온·오프라인 하이브리드
- 주최 : 나노기술연구협의회
- 후원 : Springer Nature





성과 요약

- (주요결과) 3개 부문 시상 및 수상기념강연 진행
 - Nano Convergence Award 2개 부문(Distinguished Lectureship, Young Investigator Lectureship) 각각 1인씩 선정하여 시상하고 수상자는 수상기념강연을 진행함
 - 2019년도, 2020년도 최다피인용논문(Best paper Awards) 저자 2인 선정하여 시상하고 수상자는 수상기념강연을 진행함
 - Nano Convergence 발전에 기여한 국내연구자 7인 선정하여 시상
 - Nano Convergence 출판 및 인용 현황을 소개하고 참가자에게 저널의 투고와 인용을 독려
 - 올해 Special Session은 처음으로 온·오프라인 하이브리드 형태로 개최되었으며, 행사 다음 날인 7월 9일(금) 하루 동안 세션 녹화영상이 나노코리아 홈페이지를 통해 공개됨
- (발표규모) 2개국 4명의 초청 강연 진행
- (참석규모) 4개국 총 162명 참석(오프라인 56명, 온라인 106명)



프로그램

Time	Session	
14:00~14:30	Registration	
14:30~14:32	Opening (Chair: Prof. Bong Geun Chung)	Congratulatory Remarks <i>President Ji Beom Yoo, Korea Nanotechnology Research Society</i>
14:32~14:34		Opening Remarks <i>Editor-in-Chief Jeong-Woo Choi, Nano Convergence</i>
14:34~14:39		Congratulatory Remarks [Real-Time Streaming] <i>Senior Editor Annie Kang, Springer Nature</i>
14:39~14:45		Current and Future of Nano Convergence <i>Managing Editor Bong Geun Chung, Nano Convergence</i>
14:45~15:00 (15min)	Nano Convergence Award Ceremony	
15:00~15:40 (40min)	Session I (Chair: Prof. Seunghyun Lee)	Awardee Lecture 1 [Real-Time Streaming] <i>(Nano Convergence Distinguished Lectureship)</i> <i>Prof. Philip Kim, Harvard University</i>
15:40~16:00 (20min)		Awardee Lecture 2 [Real-Time Streaming] <i>(Nano Convergence Best Paper in 2020)</i> <i>Prof. Chengkuo Lee, National University of Singapore</i>
16:00~16:20	Coffee Break	
16:20~16:40 (20min)	Session II (Chair: Prof. Tae-Hyung Kim)	Awardee Lecture 3 [Real-Time Streaming] <i>(Nano Convergence Best Paper in 2019)</i> <i>Prof. Dong-Kyun Ko, New Jersey Institute of Technology</i>
16:40~17:20 (40min)		Awardee Lecture 4 <i>(Nano Convergence Young Investigator Lectureship)</i> <i>Prof. Ki Tae Nam, Seoul National University</i>
17:20~17:30	Closing Remark	

현장사진



출판실적

인용현황

제3장

기타 활동

편집운영위원회

3-4 Nature Conference 개최

3-4-1. 개최개요

- 기간 : 2021.11.15.(월) ~ 17(수), 3일간
- 장소 : 서울대학교 호암교수회관(온·오프라인 하이브리드 개최)
- 주제 : Bio-Inspired Nanomaterials
- 주최 : 나노기술연구협의회, Nano Convergence, Nature, Nature Reviews Materials, Nature Materials, Communications Engineering
- 프로그램 : 개·폐회식, 초청강연(Plenary, Keynote 등), 일반구두발표, 포스터 세션 등
- 세션주제 : Synthesis, Assemblies, Nanomedicine, Nanobiophotonics
- 공식 홈페이지 : conferences.nature.com
- 개최 규모 : 407명 참석, 247편 연구성과 발표(초청 24편, 일반 217편)

3-4-2. 개최의의

- 세계 석학을 아우르는 권위 있는 출판사 'Nature Research'와 국제 학술대회 공동 주최
- **Nano Convergence 학술지 국제적 인지도 제고 및 나노코리아 심포지엄 해외 공동 연구 네트워크 조성**
- 전 세계 참가자들을 대상으로 협의회 주요 학술사업과 국내 나노기술 수준을 효과적으로 홍보
- 국내 참가자들에게 수준 높은 프로그램을 제공하여 'Nature Scientific Community'와 교류의 장 마련



3-4-3. 추진체계

Scientific Organizing Committee



Ros Daw (Communications Engineering, UK)	Christine Horejs (Nature Reviews Materials, UK)	Colleen Loynachan (Nature Materials, UK)
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No	성명	소속 및 직위
1	최정우	서강대학교 교수
2	남기태	서울대학교 교수
3	정봉근	서강대학교 교수
4	이승현	한양대학교 교수
5	김태형	중앙대학교 교수
6	Ros Daw	Communications Engineering, Chief Editor
7	Christine Horejs	Nature Reviews Materials, Chief Editor
8	Colleen Loynachan	Nature Materials, Editor

Local Organizing Committee

No	성명	소속 및 직위	비고
1	유지범	성균관대학교 교수	Conference Chair
2	최정우	서강대학교 교수	Program Chair
3	윤완수	성균관대학교 교수	Vice-Program Chair
4	Luke P. Lee	Harvard University, Professor	
5	한민구	한국과학기술한림원 원장	
6	이영희	성균관대학교 교수	
7	천진우	연세대학교 교수	
8	한성욱	한국에너지기술연구원 책임	
9	송용설	(주)아모그린텍 대표이사	
10	안진호	한양대학교 교수	
11	이내성	세종대학교 교수	
12	최영진	세종대학교 교수	
13	이주원	과학기술정보통신부 과장	

출판실적

인용현황

제3장

기타활동

편집은영위원회

3-4-4. 프로그램

 프로그램 시간표

시간/일자	11월 15일(월)	11월 16일(화)		11월 17일(수)
08:00-09:00	Registration	Registration		Registration
09:00-12:00	Opening Ceremony	Session 2. Assemblies		Session 4. Nanomedicine
	Session 1. Synthesis	Session 3. Nanobiophotonics		
12:00-13:30	Lunch	Lunch		Lunch
13:30-15:10	Session 1. Synthesis	Session 3. Nanobiophotonics		Session 4. Nanomedicine
15:10-15:30	Break	Break		Break(40분)
15:30-17:40	Session 2. Assemblies	Session 3. Nanobiophotonics (15:30-16:20)		Scientific Writing & Publishing Workshop (16:45-17:45)
17:40-18:40	Introduction of Nature Journals Session	Poster Session (16:20-17:50)	One-to-One Sessions (17:00-18:45)	Closing Ceremony
18:40-20:10	Welcome Reception			

 초청연사

세션	초청부문	이름	소속	국가
합성 (Synthesis)	Plenary	Nicholas Kotov(현장발표)	Michigan	USA
	Keynote	Hanadi Sleiman	McGill	Canada
		Un Yong Jeong(현장발표)	POSTECH	Korea
	Invited	Akif Tezcan	UCSD	USA
		Sarah Staniland	USheffield	UK
		Shu-Hong Yu	USTC	China
조립 (Assemblies)	Plenary	Joanna Aizenberg*	Harvard	USA
	Keynote	Pil J. Yoo(현장발표)	SKKU	Korea
		Petra Schwille	MPI Biochemistry	Germany
	Invited	Silvia Vignolini	Cambridge	UK
		Po-Yu Chen	National Tsing Hua	China
		Orlando Rojas	UBC	Canada
나노바이오광학 (Nanobiophotonics)	Plenary	Luis Liz-Marzan	CIC biomaGUNE	Spain
	Keynote	Viviana Gradinaru	Caltech	USA
		Kanyi Pu	NTU	Singapore
		Teri Odom	Northwestern	USA
	Invited	Polina Anikeeva	MIT	USA
		Hatice Altug	ETHZ	Switzerland
Jwa-Min Nam(현장발표)	SNU	Korea		
나노의학 (Nanomedicine)	Plenary	Taeghwan Hyeon(현장발표)	SNU	Korea
	Keynote	Natalie Artzi	MIT	USA
		Kazunori Kataoka	Kawaski	Japan
	Invited	Daniel Siegwart	Texas	USA
		Susan Thomas	Georgia Tech	USA
		Ronit Satchi-Fainaro	Tel Aviv	Israel

* 초청연사 'Covid-19' 바이러스 감염으로 인한 발표취소

출판실적

인용현황

제3장

기타활동

편집인명위원회

3-4-5. 현장사진



4기 | Nano Convergence 편집운영위원회(2020-2021년도)

위원장	최정우 (서강대학교 교수)
	Luke P. Lee (Professor, Harvard Medical School, Harvard University)
편집간사	김중배 (고려대학교 교수)
	최리노 (인하대학교 교수)
	Ki-Bum Lee (Professor, Rutgers University)
실무간사	정봉근 (서강대학교 교수)
	이승현 (한양대학교 교수)
	남기태 (서울대학교 교수)
	김태형 (중앙대학교 교수)
분과위원장	전상훈 (한국과학기술원 교수)
	노준석 (포항공과대학교 교수)
	백태중 (중앙대학교 교수)
	심우영 (연세대학교 교수)
	고민재 (한양대학교 교수)
	송준명 (서울대학교 교수)
김용호 (성균관대학교 교수)	

출판 실적

인용 현황

기타 활동

편집운영위원회

2020-2021 나노저널 [Nano Convergence] 연차실적보고서

인쇄일	2022년 7월
발행일	2022년 7월
발행인	안진호 (나노기술연구협의회 제9대 회장)
편집인	조윌림 (Nano Convergence 5기 편집위원장)
발행처	



주소: 서울특별시 서초구 남부순환로 354길 14
담당자: 곽정원 선임연구원, 정지윤 연구원
전화: 02-6925-4717 | 팩스: 02-2057-8509
<http://www.nanoconvergencejournal.com>
<http://www.kontrs.or.kr/>

디자인 및 인쇄 한림원 (02-2273-4201)

이 보고서는 과학기술정보통신부에서 시행한 나노과학기술 전문인력 양성
및 협력 네트워크 연구사업의 일환으로 수행한 연구보고서입니다.

이 보고서의 무단 전재 및 재배포를 금합니다.

관련 문의는 나노기술연구협회로 연락해주시기 바랍니다.

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나노기술연구협의회
Korea Nanotechnology
Research Society

Official Website



Official Website



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