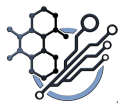


IL JEON

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**Jeon's Energy Optoelectronics
& Nanobiomaterials LAB**

CAREER

Sungkyunkwan University (SKKU)

Associate Professor
Department of Nano Engineering
SKKU Advanced Institute of Nano Technology (SAINT)

Suwon, South Korea
2021 Aug – present

Vice Provost (Associate Vice President)
Offices of International Relations and International Student Services
SKKU International Affairs Division (IAD)

2023 Mar – present

Associate Editor
Battery Energy | Wiley

2023 Sep – present

CEO and Founder of JLabNT co ltd.

2023 Aug – present

Pusan National University

Associate Professor

Busan, South Korea
2020 Mar – 2021 Aug

University of Tokyo

Assistant Professor

Tokyo, Japan
2017 Mar – 2020 Feb

University of Tokyo

JSPS Postdoctoral Fellow

Tokyo, Japan
2016 Apr – 2017 Feb

LG Display Co. Ltd (Previously LG.Philips)

Senior Research Engineer
Display Engineering, 3D, Touch, Surface treatment, Polarizer, Colour Chromatography, OLED

Paju, South Korea
2008 Aug – 2013 Feb

EDUCATION

University of Tokyo

PhD in Chemistry

- Dean's Award for the Best Thesis (20.5 credits GPA: 4.0/4.0)

Tokyo, Japan
2013 Apr – 2016 Mar

Oxford University

MChem in Chemistry

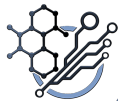
- 'Functionalisation of Polymeric Substrates via Diarylcarbene Synthesis'

Oxfordshire, UK
2007 Sep – 2008 Jun

Oxford University

BA in Chemistry

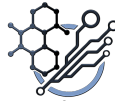
Oxfordshire, UK
2004 Sep – 2007 Jun

**RESEARCH FUNDINGS**

BRIDGE3.0 실용화사업(₩20m for 1y; PI), NRF BrainPool(₩200m for 2y; PI)^{RS-2023-00284288}
 NRF 창의도전(₩140m for 2y; supervisor)^{RS-2023-00243849}, NRF 창의도전(₩140m for 2y; supervisor)^{RS-2023-00244431}, NRF 나노다이아몬드양자센서(₩330m for 3y; Sub)^{RS-2023-00228994}, LINC^{+2ndGen}(₩65m for 1y; PI),
 예비창업패키지(₩46m for 1y; PI), 실용실용화(₩50m for 1y; PI), BrainPool(₩250m for 2y; PI)^{RS-2023-00220435},
 JSPS KIBAN C(¥3.6m for 3y; PI)^{JP23K04872}, NRF 중기(₩600m for 5y; Sub)^{2023R1A2C3007358}, Korea-
 Nordic R&D Network(₩20m for 1y; PI)^{2023K2A9A2A23000283}, LINC⁺(₩50m for 1y; PI),
 SKKU 삼성학과과제(₩20m for 1y; PI), NRF BrainPool(₩77m for 3y; PI)^{2022H1D3A2A01092414}, NRF
 BrainPool(₩100m for 3y; PI)^{2022H1D3A2A01081241}, NRF 창의도전(₩210m for 3y;
 supervisor)^{2022R111A1A01065316}, SHTECH co. ltd.(₩50m for 2y; PI), NRF BrainPool(₩250m for 2y;
 PI)^{2022H1D3A2A02062828}, SKKU AI Grant(₩6m for 2y; PI), SKKU Postdoctoral Fellowship(₩30m for
 1y; supervisor), Kyungshin Holdings co. ltd.(₩600m for 3y; PI), ENplus co. ltd.(₩100m for 2y;
 Sub), SKKU Start-Up(₩65m for 1y; PI), PNU 2nd Start-Up(₩10m for 1y; PI), NRF 우수선진(₩400m
 for 3y; PI)^{2021R1C1C1009200}, NRF 국내연수(₩40m for 2y; supervisor)^{2020R1A6A3A01099709}, NRF 생애초기(₩30m
 for 1y; PI)^{2020R1G1A1101578}, NRF 박사장려금(₩40m for 3y; supervisor)^{2020R1A6A3A13075717}, BK
 Fellowship(₩15m for 1y; PI), PNU Global Star-5(₩100m for 2y; PI), PNU 연구회(₩8m for 2y; PI),
 PNUIRC-2020(₩7m for 2y; PI), PNU 2-Year-Grant(₩23m for 2y; PI), ERC(₩120m for 1y;
 Sub)^{2018R1A5A1025594}, PNU 정착금(₩15m for 1y; PI), JST CIAiS initiative(¥10m for 3y; PI), JSPS
 KAKENHI Wakate(¥4.2m for 2y; PI)^{19K15669}, JSPS KAKENHI Start-Up(¥2.7m for 2y; PI)^{17H06609},
 Yashima Foundation(¥1m for 1y; PI), JSPS fellowship(stipend: ¥8.7m + research aid: ¥3m for
 2y)^{16F16069}

AWARDS & HONOURS

- ChinaNano - ARN Young Scientist Award for Excellent Presentation (2023)
- Achieved Early-Tenureship, SKKU (2023)
- NANO KOREA Organizing Committee Chair Award for Excellent Research (2023)
- Plenary Talk Award from 13th JCK Symposium on Chemical & Nanotechnology Innovation for Young Researchers (2021)
- Best Oral Presentation Award at the MRS Fall Meeting [\$200] (2020)
- The 58th FNTG Osawa Award [plaque & ¥20k] (2019)
- Best Poster Award sponsored by ACS, 19th International Conference on the Science and Application of Nanotubes and Low-dimensional Materials (NT18) [\$250] (2018)
- The 34th Inoue Research Award for Young Scientists [medal & ¥500k] (2017)
- The 67th Lindau Nobel Laureate Meeting Fellow (2017)
- The 8th JSPS HOPE Meeting with Nobel Laureates Fellow (2016)
- Dean's Award for Excellent Doctoral Thesis (given to the best Ph.D. student) (2016)
- The Chemical Society of Japan (CSJ) Poster Award (2015)
- Best Proposal Award, JRCOE PKU-UTokyo Nanocarbon Summer Camp (2015)
- The 48th FNTG Young Scientist Poster Award [plaque & ¥15k] (2015)
- JASSO Scholarship recipient for PhD course [¥2m + Tuition Fee] (2013-2016)
- Patent Gold Award, LG Display (2012)
- Idea Generation Award, LG Display (2011)



ACTIVITIES

- **Associate Editor** of Battery Energy, Wiley (Sep 2023 – now)
- **Vice Provost** of SKKU International Affairs Division (IAD) (Mar 2023 – now)
- **CEO and Founder** of JLabNT co ltd. (Aug 2023 – now)
- Expert Committee **International Electrotechnical Commission (IEC)** (Dec 2021 – now)
- Executive board member at Fullerene NanoTube Graphene (**FNTG**) Society (Apr 2023 – now)
- Councillor & Executive director **Korean Society of Chemical Engineering** (Nov 2020 – now)
- Project Associate Professor at **Tohoku University, Japan** (Oct 2020 – now)
- Project Associate Professor at **Shinshu National University, Japan** (Oct 2021 – now)
- Visiting Professor at **UCLA** (Oct 2017 – Feb 2018, Aug – Sep 2018 & May – July 2019)
- **Published a book** about memoir chronicling experience in England ISBN:9788989805670 (2011)

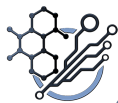
REGISTERED PATENTS & ACADEMIC PUBLICATIONS

Patents

- (24) 'Light-Transmitting Electrode Having Carbon Nanotube Film, Solar Cell, Method for Producing Light-Transmitting Electrode Having Carbon Nanotube Film, and Method for Manufacturing Solar Cell'
Shigeo Maruyama, Yutaka Matsuo, **Il Jeon**, Kehang Cui, Esko I Kauppinen, Albert G Nasibulin, US Patent US20170316887A1
- (23) 'Quantum Rod Light-Emitting Display Device 2' **Il Jeon**, Kyung-Chan Kim, Joong-Pill Park, Moon-Bae Gee, Sung-Hee Cho, Kyung-Kook Jang, Kyung-Seok Jeong, US Patent US20140016296
- (22) 'Quantum Rod Light-Emitting Display Device 1' **Il Jeon**, Kyung-Chan Kim, Joong-Pill Park, Moon-Bae Gee, Sung-Hee Cho, Kyung-Kook Jang, Kyung-Seok Jeong, US Patent US20130341588
- (21) 'OLED Anti-reflective film' **Il Jeon**, Su Jung Park, US Patent US20130148199
- (20) 'Organic Light Emitting Display Device' **Il Jeon**, Jinho Kim, US Patent US20120327336
- (19) 'Stereoscopic Image Display' **Il Jeon**, Kyung Jin Kim, US Patent US8860895B2
- (18) 'N-TYPE ORGANIC SEMICONDUCTOR LAYER, ORGANIC SEMICONDUCTOR DEVICE, AND N-TYPE DOPANT' JP Patent 2020-033404
Yutaka Matsuo, Hiroshi Ueno, **Il Jeon**, Hiroshi Okada
- (17) 'Carbon Nanotube Organic Solar Cells (カーボンナノチューブ有機太陽電池)' JP Patent 2014-178204
Shigeo Maruyama, Yutaka Matsuo, **Il Jeon**, Kehang Cui
- (16) 'Niobium doped titanium oxide organic thin-film solar cells (ニオブドープ酸化チタンを用いた有機薄膜太陽電池)' JP Patent 2015-034346
Yutaka Matsuo, Tetsuya Hasegawa, **Il Jeon**, Shoichiro Nakao

And other 15 registered Korean Patents (first-named inventor in most of them):

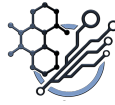
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**Journal Publications**

- (101) 'Decoding Polymeric Additive-Driven Self-Healing Processes in Perovskite Solar Cells from Chemical and Physical Bonding Perspectives'
Jeong-Seok Nam^{1st}, Jinmyung Choi^{1st}, Jiye Han, **Il Jeon***, Hyung Do Kim*
Advanced Energy Materials **2024** in print (IF:29.698)
- (99) 'Frontier Sustainable Nanotechnology of South Korea Today'
Il Jeon*, Youn Sang Kim, Sungjoo Lee*
EcoMat **2024** in print [Editorial] (IF:14.6)
- (98) 'Recent Advances in Dispersant Technology for Carbon Nanotubes toward Energy Device Applications'
Yong Jun Choi^{1st}, Edric John Cruz Nacpil^{1st}, Jiye Han, Ick Sook Kim*, **Il Jeon***
Advanced Energy and Sustainability Research **2024** in print (IF:5.8)
- (97) 'Enhanced Performance of Solution-Processed Carbon Nanotube Transparent Electrodes in Foldable Perovskite Solar Cells through Vertical Separation of Binders by using Eco-friendly Parylene Substrate'
Unsoo Kim^{1st}, Jeong-Seok Nam^{1st}, Jungjin Yoon^{1st}, Jiye Han, Mansoo Choi*, **Il Jeon***
Carbon Energy **2024** in print (IF:22.0)

2023

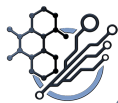
- (96) 'Bifunctional Al₂O₃-based Artificial Layers on LiNiO₂ Cathodes for High Energy-density Aqueous Li-ion Batteries'
Changhee Lee*^{1st}, Jinmyung Choi^{1st}, Yuto Miyahara, **Il Jeon***, Kohei Miyazaki, Takeshi Abe
Chemistry of Materials December **2023** (IF:10.508)
- (95) 'Synthesis and Characterization of high-quality Ta₂O₅ Nanoparticles for highly selective SAW-Based DUV sensor and Corona detection Application'
Sihyeok Kim, Faisal Nawaz, Cheol Choi, **Il Jeon***, Keekeun Lee*
Advanced Materials Technologies 2301486 December **2023** (IF:6.8)
- (94) 'Gate-tunable graphene/ZnO-based dual-channel field-effect transistor gas sensor for simultaneous detection of CO₂ and NO₂ gases'
Sihyeok Kim, Gurpreet Singh, Young Chul kim, Jungwoong Park, **Il Jeon**, Yeong Hwan Ahn, Keekeun Lee*
IEEE Sensors Journal 23 (20) 24214-24223 October **2023** (IF:4.325)
- (93) 'Nano-fountain pen for writing hybrid plasmonic architectures'
Won-Geun Kim^{1st}, Sung-Jo Kim^{1st}, Il Hyun Lee^{1st}, Vasanthan Devaraj, Nara Jeon, Cherry Park, Minjun Kim, Donghan Lee, **Il Jeon**, Jong-Min Lee, Ji Tae Kim*, Junsuk Rho*, and Jin-Woo Oh*
Small Structures 2300260 October **2023** (11.343)
- (92) 'Exploring Endohedral Metallofullerenes for Advanced Thin-Film Devices Applications towards Next-Generation Electronics'
Jeong-Seok Nam^{1st}, Youngho Seo^{1st}, Jang Woo Lee, Kyusun Kim, Jiye Han, Tushar Rane, Hyung Do Kim*, **Il Jeon***
Chemistry of Materials 35 (20) October **2023** 8323–8337 [Up-and-Coming Series] (IF:10.508)



- (91) 'Artificial Intelligence-Assisted Robustness of Optoelectronics for Automated Driving: A Review'
Edric John Cruz Nacpil, Jiye Han, **Il Jeon***
IEEE Intelligent Transportation Systems Transactions September **2023** 1–17 (IF:9.551)
- (90) 'EEG-based Emergency Braking Prediction Using Data Ablation and SVM Classification'
Edric John Cruz Nacpil*, Zheng Wang*, Muhua Guan*, Kimihiko Nakano*, **Il Jeon***
IEEE Sensors Journal June **2023** 23 (14) 16013–16019 July **2023** (IF:4.325)
- (89) 'Emerging Opportunities in Lead-Free and Lead-Tin Perovskites for Environmentally Viable Photodetector Applications'
Efat Jokar*^{1st}, Liang Cai^{1st}, Jiye Han, Edric John Cruz Nacpil, **Il Jeon***
Chemistry of Materials 35 (9) 3404–3426 May **2023** (IF:10.51)
- (88) 'Perspectives on critical properties of fullerene derivatives for rechargeable battery application'
Changhee Lee*^{1st}, Youngho Seo^{1st}, Jiye Han, Jinkwang Hwang*, **Il Jeon***
Carbon 210 118041 April **2023** (IF:10.9)
- (87) 'Extreme Gradient Boosting to Predict Atomic Layer Deposition for Platinum Nano-Film Coating'
SungHo Yoon^{1st}, Jun-Hyeok Jeon^{1st}, Seung-Beom Cho, Edric John Cruz Nacpil*, **Il Jeon***, Jae-Boong Choi*, Hyeongkeun Kim*
Langmuir 39 (14) 4984–4992 March **2023** (IF:4.331) [Front Cover]
- (86) 'Upcycled synthesis and extraction of carbon-encapsulated iron carbide nanoparticles for gap plasmon applications in perovskite solar cells'
Jiye Han, Kyusun Kim, Mohammad Tavakkoli, Jongmin Lee, Dawoon Kim, In Chung, Aram Lee, Keonwoo Park, Yongping Liao, Jin-Wook Lee, Seoung-Ki Lee, Jin-Woo Oh, Hyokyung Sung*, Esko I. Kauppinen*, **Il Jeon***
EcoMat 1-14 March **2023** (IF:14.6) [Korea TOP 3 University Special Issue]
- (85) 'Liquid-State Dithiocarbonate-based Polymeric Additives with Monodispersity rendering Perovskite Solar Cells with Exceptionally-High Certified Photocurrent and Fill Factor'
Kyun Kim^{1st}, Jiye Han^{1st}, Sangsu Lee^{1st}, Soyeon Kim, Jin-Myung Choi, Jeong-Seok Nam, Dawoon Kim, In Chung, Tae-Dong Kim, Sergei Manzhos, Dong Suk Kim, Jung Yun Do, **Il Jeon***
Advanced Energy Materials 13 (14) 2203742 February **2023** (IF:27.8)
- (84) 'Highly Transparent and Mechanically Robust Energy Harvestable Piezocomposite Embedding One-dimensional P(VDF-TrFE) Nanofibers and Single-walled Carbon Nanotubes'
Kiyong Kim^{1st}, Sangsu Lee^{1st}, Jeongseok Nam, Minkyong Joo, Bjørn Mikkladal, Qiang Zhang, Esko I. Kauppinen, **Il Jeon***, Seongpil An*
Advanced Functional Materials 2213374 January **2023** (IF:19.0)
- (83) 'Sustainable and Environmentally Viable Perovskite Solar Cells'
Ga-Yeong Kim,^{1st} Kyusun Kim,^{1st} Hee Jung Kim,^{1st} Hyun Suk Jung*, **Il Jeon*** and Jin-Wook Lee*
EcoMat 1-25 e12319 January **2023** (IF:14.6) [SKKU-Wollongong Special Issue]

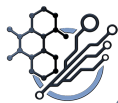
2022

- (82) 'Conformal three-dimensional platinum coating using rotary-type atomic layer deposition for a diesel oxidation catalyst application'
Sung-Ho Yoon^{1st}, Min Jong Kil^{1st}, Jun-Hyeok Jeon^{1st}, Hyun-Mi Kim, Seul-Gi Kim, Eui-Sung Lee, Jiye Han, Youngmo An, Jihwan An, **Il Jeon***, Hyeongkeun Kim*



International Journal of Precision Engineering and Manufacturing-Green Technology December **2022**
(IF:5.517)

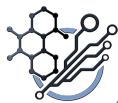
- (81) 'Prevention of Noise Current Generation in Tin-Based Lead-Free Perovskites for Highly Sensitive Photodetection'
Woongsik Jang^{1st}, Kyusun Kim^{1st}, Byungi Kim, Jeong-Seok Nam, **Il Jeon***, Dong Hwan Wang*
Advanced Functional Materials 32 (51) 2207713 September **2022** (IF:19.924)
- (80) 'Alleviating Defects in Perovskites using Single-walled Carbon Nanotubes'
Jin-Myung Choi^{1st}, Jiye Han^{1st}, Tushar Rane, Soyeon Kim, Ick Soo Kim*, **Il Jeon***
Journal of Physics Energy 4 (4) 042004 September **2022** (IF:7.528)
- (79) 'Synthesis of Neutral Li-Endohedral PCBM: An n-Dopant for Fullerene Derivatives'
Hiroshi Ueno*, Daiki Kitabatake, Hao-Sheng Lin, Yue Ma, **Il Jeon**, Seiichiro Izawa, Masahiro Hiramoto, Fuminori Misaizu, Shigeo Maruyama, Yutaka Matsuo*
ChemComm 58 (73) 10190-10193 August **2022** (IF:6.065)
- (78) 'Overview and Outlook on Graphene and Carbon Nanotubes in Perovskite Photovoltaics from Single-Junction to Tandem Applications'
Jin-Myung Choi^{1st}, Jiye Han^{1st}, Jonghyuck Yoon, Soyeon Kim, **Il Jeon***, Shigeo Maruyama*
Advanced Functional Materials 32 (42) 2204594 August **2022** (IF:19.924)
- (77) 'Spontaneous Hybrid Crosslinked Network Induced by Multifunctional Copolymer Toward Mechanically Resilient Perovskite Solar Cells'
Tae-Hee Han*^{1st}, Yepin Zhao^{1st}, Jungjin Yoon^{1st}, Joo Yoon Woo, Eun-Ha Cho, Wan Dong Kim, Changsoo Lee, Jin-Wook Lee, Jin-Myung Choi, Jiye Han, Jeong-Seok Nam, Kai Wang, Shashank Priya, Milica Balaban, **Il Jeon***, Yang Yang*
Advanced Functional Materials 32 (40) 2207142 August **2022** (IF:19.924)
- (76) 'Homogeneously Miscible Fullerene inducing Vertical Gradient in Perovskite Thin-Film towards Highly Efficient Solar Cells'
Kyusun Kim^{1st}, Ziang Wu^{1st}, Jiye Han^{1st}, Yue Ma, Sangsu Lee, Sung-Kwang Jung, Jin-Wook Lee, Han Young Woo*, **Il Jeon***
Advanced Energy Materials 12 (20) 2200877 April **2022** (IF:29.698)
- (75) 'Scalable eDIPS-based single-walled carbon nanotube films for conductive transparent electrodes in organic solar cells'
Hao-Sheng Lin^{1st}, Riku Hatomoto^{1st}, Daisuke Miyata, Miftakhul Huda, **Il Jeon**, Satoru Hashimoto, Takeshi Hashimoto, Yutaka Matsuo*
Applied Physics Express 046505 March **2022** (IF:2.819)
- (74) 'Accelerated Design of High-Efficiency Lead-free Tin Perovskite Solar Cells via Deep Neural Network'
Taeju Bak^{1st}, Kyusun Kim^{1st}, Eunhyeok Seo, Jiye Han, Hyokyung Sung, **Il Jeon***, Im Doo Jung*
International Journal of Precision Engineering and Manufacturing-Green Technology March **2022**
(IF:5.517)
- (73) 'Multi-functional MoO₃ doping of carbon-nanotube top electrodes for highly transparent and efficient semi-transparent perovskite solar cells'
Seungju Seo, Kosuke Akino, Jeong-Seok Nam, Ahmed Shawky, Hao-Sheng Lin, Hiroki Nagaya, Esko I. Kauppinen, Rong Xiang, Yutaka Matsuo, **Il Jeon***, Shigeo Maruyama*
Advanced Materials Interfaces 9 (11) 2101595 February **2022** (IF:6.389)



- (72) 'Utilization of Multifunctional Organic Acids Inspired from Nature towards Environmentally Friendly Carbon Nanotube-based Planar Heterojunction Silicon Solar Cells'
Jiye Han^{1st}, Jeong-Seok Nam^{1st}, Seungju Seo, Aram Lee, Changhyun Lee, Yoonmook Kang, Hae-Seok Lee, Donghwan Kim, Qiang Zhang, Esko I. Kauppinen, Hyuck Jeong, Jin-Woo Oh, Shigeo Maruyama, Im Doo Jung*, **Il Jeon***
Advanced Energy and Sustainability Research 3 (5) 2100155 January **2022** (IF:5.8)

2021

- (71) 'Enhancing Performance and Stability of Tin Halide Perovskite Light Emitting Diodes via Coordination Engineering of Lewis Acid-Base Adducts'
Ye Jin Heo, Ho Jin Jang, Joo-Hong Lee, Sae Byeok Jo, Seonkwon Kim, Dong Hae Ho, Seok Joon Kwon, Kyusun Kim, **Il Jeon**, Jae-Min Myung, Jun Yeob Lee*, Jin-Wook Lee*, Jeong Ho Cho*
Advanced Functional Materials 31 (51) 2106974 September **2021** (IF:19.924)
- (70) 'Large-Diameter Carbon Nanotube Transparent Conductor Overcoming Performance–Yield Tradeoff'
Qiang Zhang*^{1st}, Jeong-Seok Nam^{1st}, Jiye Han, Sukanta Datta, Nan Wei, Er-Xiong Ding, Aqeel Hussain, Saeed Ahmad, Viera Skakalova, Abu Taher Khan, Yong-Ping Liao, Mohammad Tavakkoli, Bo Peng, Kimmo Mustonen, Dawoon Kim, In Chung, Shigeo Maruyama, Hua Jiang, **Il Jeon***, Esko I. Kauppinen*
Advanced Functional Materials 32 (11) 2103397 September **2021** (IF:19.924)
- (69) 'Abnormally High-Lithium Storage in Pure Crystalline C60 Nanoparticles'
Linghong Yin^{1st}, Jiung Cho^{1st}, Su Jae Kim, **Il Jeon**, Injun Jeon, Mihee Park, Min Joon Park, Se Young Jeong, Dae Hyung Lee, Dong Hwa Seo*, Chae-Ryong Cho*
Advanced Materials 33 (43), 2104763 September **2021** (IF:30.849) [Back Cover]
- (68) 'Genetic Manipulation of M13 Bacteriophage for Enhancing the Efficiency of Virus-inoculated Perovskite Solar Cells with a Certified Efficiency of 22.3%'
Jiye Han^{1st}, Kyusun Kim^{1st}, Jeong-Seok Nam^{1st}, Sung Jun Hong, Eun Jung Choi, Hao-Sheng Lin, Tae-Dong Kim, Michael S. Strano, Byungchan Han, Jin-Woo Oh*, Hyung Do Kim*, **Il Jeon***
Advanced Energy Materials 11 (38), 2101221 September **2021** [Inside Back Cover] (IF: 29.698)
- (67) 'Facile and Effective Ozone Exposure Method for Wettability and Energy Level Tuning of Hole-Transporting Layer in Lead-Free Tin Perovskite Solar Cells'
Jeong-Seok Nam^{1st}, Kyusun Kim^{1st}, Jiye Han, Dawoon Kim, In Jung, Dong Hwan Wang*, **Il Jeon***
ACS Applied Materials & Interfaces 13 (36), 42935 - 42943 August **2021** (IF:10.383)
- (66) 'Multi-Walled Carbon Nanotube-Assisted Encapsulation Approach for Stable Perovskite Solar Cells'
Jin-Myung Choi, Hiroki Suko, Kyusun Kim, Jiye Han, Sangsu Lee, Yutaka Matsuo, Shigeo Maruyama, **Il Jeon***, Hirofumi Daiguji*
Molecules 26 (16), 5060 August **2021** [Special Issue] (IF:4.927)
- (65) 'Environmentally Compatible Lead-Free Perovskite Solar Cells and their Potential as Light Harvesters in Energy Storage Systems'
Il Jeon*, Kyusun Kim, Efat Jokar, Minjoon Park, Hyung-Woo Lee, Eric Wei-Guang Diao*
Nanomaterials 11 (8), 2066 August **2021** [Special Issue] (IF:5.719)
- (64) 'Carbon Nanotube Mask Filters Demonstrate Hydrophobic Barrier and Hyperthermic Antiviral Effects on SARS-CoV-2'

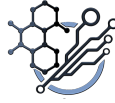


Sangsu Lee, Jeong-Seok Nam, Jiye Han, Qiang Zhang, Esko I. Kauppinen*, **Il Jeon***
ACS Applied Nano Materials 4 (8), 8135 - 8144 July **2021** (IF:6.140)

- (63) 'Cationic nitrogen-doped graphene as *p*-type modifier for high-performance PEDOT:PSS hole-transporters in organic solar cells'
Hao-Sheng Lin^{1st}, Takuhei Kaneko^{1st}, Soma Ishikawa, **Il Jeon**, Sangwoo Chae, Takumi Yana, Nagahiro Saito, Yutaka Matsuo*
Japanese Journal of Applied Physics 60 (7), 070902 June **2021** (IF:1.491)
- (62) 'One-Step Direct Oxidation of Alkoxy to Ketone for Evaporable Fullerene-Fused Ketone as Efficient Electron-Transport Materials'
Hao-Sheng Lin, Yue Ma, Rong Xiang, Sergei Manzhos, **Il Jeon**, Shigeo Maruyama, Yutaka Matsuo*
Communications Chemistry 4 (1), 1 - 8 May **2021** (IF:6.581)
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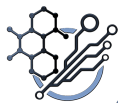
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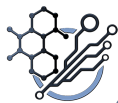


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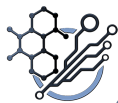
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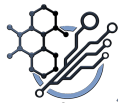
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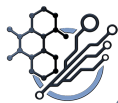
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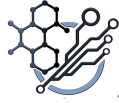


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