

NO	Subject Category	Author	作者	Title	Publication Name	PD	PY
1	Materials Science; Optics	Jiang, SA; Chang, JL; Lin, JW; Zhang, YS; Mo, TS; Lin, JD; Lee, CR	林嘉德*	Toward Full-Color Tunable Chiroptical Electrothermochromic Devices Based on a Supramolecular Chiral Photonic Material	ADVANCED OPTICAL MATERIALS		2021
2	Engineering, Electrical & Electronic; Materials Science, Multidisciplinary; Physics, Applied; Physics, Condensed Matter	Ponmudi, TS; Lee, CW; Lai, CC; Tsai, CH	蔡志宏*.賴建智	Comparative study on the effect of annealing temperature on sol-gel-derived nickel oxide thin film as hole transport layers for inverted perovskite solar cells	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	MAR	2021
3	Materials Science, Multidisciplinary; Materials Science, Coatings & Films; Physics, Applied	Thiruchelvan, PS; Lai, CC; Tsai, CH	蔡志宏*.賴建智	Combustion Processed Nickel Oxide and Zinc Doped Nickel Oxide Thin Films as a Hole Transport Layer for Perovskite Solar Cells	COATINGS	JUN	2021
4	Energy & Fuels; Materials Science, Multidisciplinary; Physics, Applied	Huang, YJ; Yu, CY; Jiang, ZK; Chen, YC; Sun, CP; Utila, MH; Yeh, WCV; Lin, CH	林楚軒*.葉旺奇	Commercial Solar Cells With Graphene Oxide as the Passivation Film	IEEE JOURNAL OF PHOTOVOLTAICS	JUL	2021

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5	Chemistry, Multidisciplinary; Nanoscience & Nanotechnology; Materials Science, Multidisciplinary; Physics, Applied	Lee, JY; Wang, CM; Chi, CL; Wu, SR; Lin, YX; Wei, MK; Lin, CH	林楚軒*.李政誼. 魏茂國	Enhanced Heat-Electric Conversion via Photonic-Assisted Radiative Cooling	NANOMATERIALS	APR	2021
6	Chemistry, Physical; Materials Science, Multidisciplinary; Metallurgy & Metallurgical Engineering	Chen, YC; Bai, YM; Hsu, YK	徐裕奎*	Biomarker detection for disease diagnosis via versatile Ag2S nanowires as electrochemical sensor and SERS substrate	JOURNAL OF ALLOYS AND COMPOUNDS	NOV 10	2021
7	Chemistry, Multidisciplinary; Chemistry, Physical; Nanoscience & Nanotechnology; Materials Science, Multidisciplinary; Physics, Applied; Physics, Condensed Matter	Nguyen, DH; Sun, JY; Lo, CY; Liu, JM; Tsai, WS; Li, MH; Yang, SJ; Lin, CC; Tzeng, SD; Ma, YR; Lin, MY; Lai, CC	賴建智*.馬遠榮. 曾賢德	Ultralow-Threshold Continuous-Wave Room-Temperature Crystal-Fiber/Nanoperovskite Hybrid Lasers for All-Optical Photonic Integration	ADVANCED MATERIALS	MAR	2021

光電工程學系(Department of Opto-Electronic Engineering)

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8	Materials Science, Multidisciplinary; Optics	Jiang, SA; Chang, JL; Lin, JW; Zhang, YS; Mo, TS; Lin, JD; Lee, CR	林嘉德*	Toward Full-Color Tunable Chiroptical Electrothermochromic Devices Based on a Supramolecular Chiral Photonic Material	ADVANCED OPTICAL MATERIALS	APR	2021
9	Chemistry, Physical; Physics, Atomic, Molecular & Chemical	Zhang, YS; Ma, CL; Rudyak, VY; Jiang, SA; Shvetsov, SA; Lin, JD; Lee, CR	林嘉德*	Thermal and optical manipulation of morphology in cholesteric liquid crystal microdroplets constrained on microfibers	JOURNAL OF MOLECULAR LIQUIDS	APR 15	2021
10	Physics, Multidisciplinary	Lee, JY; Huang, LJ; Xu, L; Miroshnichenko, AE; Lee, RK	李政諄*	Broadband control on scattering events with interferometric coherent waves	NEW JOURNAL OF PHYSICS	JUN	2021
11	Polymer Science	Chen, TH; Huang, SY; Huang, SY; Lin, JD; Huang, BY; Kuo, CT	林嘉德	Improvement of the Centrifugal Force in Gravity Driven Method for the Fabrication of Highly Ordered and Submillimeter-Thick Colloidal Crystal	POLYMERS	MAR	2021
12	Nanoscience & Nanotechnology; Materials Science, Multidisciplinary	Hsiao, YC; Jheng, PR; Nguyen, HT; Chen, YH; Manga, YB; Lu, LS; Rethi, L; Chen, CH; Huang, TW; Lin, JD; Chang, TK; Ho, YC; Chuang, EY	林嘉德	Photothermal-Irradiated Polyethyleneimine-Polypyrrole Nanopigment Film-Coated Polyethylene Fabrics for Infrared-Inspired with Pathogenic Evaluation	ACS APPLIED MATERIALS & INTERFACES	JAN 20	2021
13	Physics, Multidisciplinary	Lin, Yu-Shyan; Huang, Jian-Jhang	林育賢*	Linearity enhancement and noise reduction in a passivated AlGaAs/InGaAs/GaAs high-electron mobility transistor	JOURNAL OF THE KOREAN PHYSICAL SOCIETY		2021

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14	Energy & Fuels; Materials Science, Multidisciplinary; Physics, Applied	Phan, Giang Thi; Van Pham, Duy; Patil, Ranjit A.; Tsai, Chih-Hung; Lai, Chien-Chih; Yeh, Wang-Chi; Liou, Yung; Ma, Yuan-Ron	Van Pham, Duy*. 馬遠榮.葉旺奇.賴建智.蔡志宏	Fast-switching electrochromic smart windows based on NiO-nanorods counter electrode	SOLAR ENERGY MATERIALS AND SOLAR CELLS	OCT	2021
15	Optics; Physics, Atomic, Molecular & Chemical	Lee, Jeng Yi; Chen, Pai-Yen	李政諠*	Generalized parametric space, parity symmetry of reflection, and systematic design approach for parity-time-symmetric photonic systems	PHYSICAL REVIEW A	SEP 8	2021
16	Nanoscience & Nanotechnology; Materials Science, Multidisciplinary	Chen, Ying-Chu; Dong, Pin-Han; Hsu, Yu-Kuei	徐裕奎*	Defective Indium Tin Oxide Forms an Ohmic Back Contact to an n-Type Cu ₂ O Photoanode to Accelerate Charge-Transfer Kinetics for Enhanced Low-Bias Photoelectrochemical Water Splitting	ACS APPLIED MATERIALS & INTERFACES	AUG 18	2021
17	Chemistry, Physical; Materials Science, Multidisciplinary	Shi, Zhong-En; Liu, Shu-Hao; Tsai, Chih-Hung; Li, Chia-Wei; Chen, Chih-Ping; Yu, Yuan-Hsiang	蔡志宏*	Enhancing charge transport performance of perovskite solar cells by using reduced graphene oxide-cysteine/nanogold hybrid material in the active layer	FLATCHEM	JUL	2021
18	Nanoscience & Nanotechnology; Materials Science, Multidisciplinary	Jiang, Shun-An; Wang, Chien-Hsiang; Zhang, Yan-Song; Mo, Ting-Shan; Huang, Shuan-Yu; Hsieh, Xiang-Lin; Wong, Yu-Jun; Lin, Jia-De; Lee, Chia-Rong	林嘉德*	Control of Large-Area Orderliness of a 2D Supramolecular Chiral Microstructure by a 1D Interference Field	ACS APPLIED MATERIALS & INTERFACES	SEP 22	2021

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19	Materials Science, Multidisciplinary; Optics	Jiang, Shun-An; Lai, Chia-Chun; Zhang, Yan-Song; Lin, Jia-De; Lin, Wei-Chun; Hsieh, Xiang-Lin; Lee, Chia-Rong	林嘉德	Ultra-Broadband Tunable Bragg-Berry Optical Vortex Generators of a Circularly Symmetric Chiroptic Structure	ADVANCED OPTICAL MATERIALS		2021
20	Materials Science, Multidisciplinary; Optics	Zhang, Yan-Song; Weng, Hung-Sheng; Jiang, Shun-An; Mo, Ting-Shan; Yang, Po-Chih; Lin, Jia-De; Lee, Chia-Rong	林嘉德	Micro-Lifting Jack: Heat- and Light-Fueled 3D Symmetric Deformation of Bragg-Onion-Like Beads with Fully Polymerized Chiral Networks	ADVANCED OPTICAL MATERIALS		2021
21	Multidisciplinary Sciences	Lee, JY; Chen, YH; Chen, PY	李政誼*	Degeneracy of light scattering and absorption by a single nanowire	SCIENTIFIC REPORTS	SEP 20	2021
22	Nanoscience & Nanotechnology; Materials Science, Multidisciplinary	Zhang, YS; Wang, ZQ; Chuang, WC; Jiang, SA; Mo, TS; Lin, JD; Lee, CR	林嘉德	Programmable Engineering of Sunlight-Fueled, Full-Wavelength-Tunable, and Chirality-Invertible Helical Superstructures	ACS APPLIED MATERIALS & INTERFACES	NOV 24	2021
23	Crystallography; Materials Science, Multidisciplinary	Lin, JD; Wu, PC; Mo, TS; Huang, BY; Kuo, CT; Lee, CR	林嘉德	Controllable Liquid Crystal Micro Tube Laser	CRYSTALS	DEC	2021

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1	Materials Science, Multidisciplinary; Physics, Applied; Physics, Condensed Matter	Lee, JY; Chen, PY	李政誼*	Optical forces and directionality in one-dimensional PT-symmetric photonics	PHYSICAL REVIEW B	DEC	2021