

教師姓名	作者群	論文名稱	期刊名稱	卷	期	頁	發表年	發表月
莊豐權	Chin, Hao-Ting; Wang, Deng-Chi; Gulo, Desman Perdamaian; Yao, Yu-Chi; Yeh, Hao-Chen; Muthu, Jeyavelan; Chen, Ding-Rui; Kao, Tzu-Chun; Kalbac, Martin; Lin, Ping-Hui; Cheng, Cheng-Maw; Hofmann, Mario; Liang, Chi-Te; Liu, Hsiang-Lin; Chuang, Feng-Chuan; Hsieh, Ya-Ping	Tungsten Nitride (W5N6): An Ultraresilient 2D Semimetal	NANO LETTERS	24	1	67-73	2023	12
莊豐權	Chin, Hao-Ting; Wang, Deng-Chi; Wang, Hao; Muthu, Jeyavelan; Khurshid, Farheen; Chen, Ding-Rui; Hofmann, Mario; Chuang, Feng-Chuan; Hsieh, Ya-Ping	Confined VLS Growth of Single-Layer 2D Tungsten Nitrides	ACS APPLIED MATERIALS & INTERFACES	16	1	1705-1711	2023	12
朱家誼	Ju, Chia-Yi; Liu, Wan-Yu; Chen, Shuo-Yen; Chen, Guang-Yin	Prolonging the Qubits Entanglement via Local Surface Plasmon Modes	SPIN	13	4	1	2023	12
邱奎霖	Lo, Cheng-Han; Chen, Yung-Hsiang; Lasrado, Avishma J.; Kuo, Thomas; Chang, You-Yi; Hsu, Tao-Yi; Chen, Yen-Chih; Guo, Guo-Ping; Chiu, Kuei-Lin	Superconducting Quantum Circuits Based on 2D Materials	SPIN	13	4	2340021	2023	12
闕郁倫	Hsu, Yu-Chieh; Chen, Yan-Yu; Shieh, Jia-Min; Huang, Wen-Hsien; Shen, Chang-Hong; Chueh, Yu-Lun	Design on Formation of Nickel Silicide by a Low-Temperature Pulsed Laser Annealing Method to Reduce Contact Resistance for CMOS Inverter and 6T-SRAM on a Wafer-Scale Flexible Substrate	ADVANCED ELECTRONIC MATERIALS	9	12		2023	12
莊豐權	Maghirang III, Aniceto B.; Villaos, Rovi Angelo B.; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chang, Guoqing; Chuang, Feng-Chuan	Nontrivial topological properties in two-dimensional half-Heusler compounds	CHINESE JOURNAL OF PHYSICS	86		115-121	2023	12
闕郁倫	Peng, Yu-Ren; Tang, Shin-Yi; Yang, Tzi-Yi; Sino, Paul Albert; Chen, Yuan-Chun; Chaudhary, Mayur; Chen, Chieh-Ting; Cyu, Ruei-Hong; Chung, Chia-Chen; Gu, Bing-Ni; Liu, Ming-Jing; Hsu, Che-Hao; Huang, Hung-Yi; Lee, Ling; Wu, Shu-Chi; Jen, Yu-Yi; Cheng, You-Song; Hu, Chi-Chang; Miao, Wen-Chien; Kuo, Hao-Chung; Chueh, Yu-Lun	Design of Electrocatalytic Janus WSeS/WSe ₂ Heterostructure Nanowall Electrodes with High Selectivity and Faradaic Efficiency for Nitrogen Reduction	ADVANCED ENERGY MATERIALS	13	46		2023	12
莊豐權	Arokiasamy, Susaiammal; Macam, Gennevieve M.; Villaos, Rovi Angelo B.; Maghirang III, Aniceto B.; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chang, Guoqing; Chuang, Feng-Chuan	Prediction of quantum spin Hall and Rashba effects in two-dimensional ilmenite oxides	CHINESE JOURNAL OF PHYSICS	86		242-254	2023	12
鄭橙懋	Bangolla, Hemanth Kumar; Fakhri, Muhammad Yusuf; Lin, Ching-Hsuan; Cheng, Cheng-Maw; Lu, Yi-Hung; Fu, Tsu-Yi; Selvarasu, Pushpa; Ulaganathan, Rajesh Kumar; Sankar, Raman; Chen, Ruei-San	Electrical and optoelectronic anisotropy and surface electron accumulation in ReS ₂ nanostructures	NANOSCALE	15	48	19735-19745	2023	12

關郁倫	Liu, Yu-Cheng; Zou, Rong; Liu, Wen-Wu; Cui, Chong-Yang; Lei, Yi-Xiao; Li, Cai-Xia; Niu, Sheng-Tao; Xu, Zhi-Qiang; Chen, Wei-Qian; Niu, Wen-Jun; Liu, Mao-Cheng; Liu, Ming-Jin; Gu, Bingni; Ran, Fen; Chueh, Yu-Lun	Enhanced efficiency and long-term stability of all inorganic CsPbBr ₃ perovskite solar cells via regulation of charge separation and extraction by band engineered-Co ₃ O ₄ nanocrystals as a hole transport material layer	MATERIALS TODAY COMMUNICATIONS	37			2023	12
呂浩宇	Su, Kate Y. L.; Kennedy, Grant M.; Rieke, G. H.; Hughes, A. Meredith; Lin, Yu-Chia; Kittling, Jamar; Jackson, Alan P.; Anche, Ramya M.; Liu, Hauyu Baobab	RZ Piscium Hosts a Compact and Highly Perturbed Debris Disk	ASTROPHYSICAL JOURNAL	959	1	1~12	2023	12
陳柏勳	Huang, Jen-Wei; Chen, Po-Hsun; Yeh, Tsung-Han; Tsai, Xin-Ying; Wu, Pei-Yu	Analysis of the Extraction Method and Mechanism of Hot Carrier Degradation in Al ₂ O ₃ /Si ₃ N ₄ Bilayer Gate Dielectric AlGaIn/GaN MIS-HEMTs	IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELIABILITY	23	4	510-515	2023	12
郭政育	Torne, Pablo; (中略); Kuo, Cheng-Yu; (後略)	A Search for Pulsars around Sgr A* in the First Event Horizon Telescope Data Set	ASTROPHYSICAL JOURNAL	959	1	id 14 : page 1-27	2023	12
呂浩宇	Lin, Y.; Spezzano, S.; Pineda, J. E.; Harju, J.; Schmiedeke, A.; Jiao, S.; Liu, H. B.; Caselli, P.	Initial conditions of star formation at ≤ 2000 au: Physical structure and NH ₃ depletion of three early-stage cores	ASTRONOMY & ASTROPHYSICS	680	A43	1~22	2023	12
狄米契	Basak, Jaydeep Kumar; Giataganas, Dimitrios; Mondal, Sayid; Wen, Wen-Yu	Reflected entropy and Markov gap in noninertial frames	PHYSICAL REVIEW D	108	12	125009-1~125009-15	2023	12
鍾佳民	Wauters, Matteo M.; Chung, Chia-Min; Maffi, Lorenzo; Burrello, Michele	Topological Kondo model out of equilibrium	PHYSICAL REVIEW B	108	22	L220302	2023	12
黃旭明	Huang, Shiu-Ming; Cheng, Wei-Chueh; Wang, Pin-Cing; Cheng, Fu-En; Wu, Chiu-Hsien	Significant Enhancement of NO ₂ Detection Response in MoTe ₂ Nanostructures with a 1T'-2H Structure Mixture	ACS APPLIED NANOMATERIALS	7	1	306-312	2023	12
黃信銘	Patra, Bikash; Verma, Rahul; Huang, Shin-Ming; Singh, Bahadur	Role of effective mass anisotropy in realizing a hybrid nodal-line fermion state	PHYSICAL REVIEW B	108	23		2023	12
邱奎霖	Mosallanejad, Vahid; Li, Haiou; Cao, Gong; Chiu, Kuei-Lin; Dou, Wenjie; Guo, Guo-ping	The cell-centered Finite-Volume self-consistent approach for heterostructures: 1D electron gas at the Si-SiO ₂ interface	JOURNAL OF PHYSICS-CONDENSED MATTER	35	47	475301	2023	11

關郁倫	Niu, Wen-Jun; Li, Ru-Ji; Zhao, Wei-Wei; Yan, Ying-Yun; Feng, Er-Peng; Chen, Jiang-Lei; Gu, Bing-Ni; Liu, Ming-Jin; Chueh, Yu-Lun	Hierarchical porous Fe-N/C@surfactant composites synthesized by a surfactant-assisted strategy as high-performance bifunctional oxygen electrodes for rechargeable zinc-air batteries	JOURNAL OF COLLOID AND INTERFACE SCIENCE	649		435-444	2023	11
郭政育	Akiyama, Kazunori; (中略); Kuo, Cheng-Yu; (後略)	First M87 Event Horizon Telescope Results. IX. Detection of Near-horizon Circular Polarization	ASTROPHYSICAL JOURNAL LETTERS	957	2	id L20 : page 1 ~ 42	2023	11
呂浩宇	Hashimoto, Jun; Liu, Hanyu Baobab; Dong, Ruobing; Liu, Beibei; Muto, Takayuki; Terada, Yuka	Centimeter-sized Grains in the Compact Dust Ring around Very-low-mass Star CIDA 1	ASTRONOMICAL JOURNAL	166	5	1~10	2023	11
鄭橙懋	Chang, C. -C.; Hsu, C. -E.; Haung, J. -Y.; Liu, T. -C.; Cheng, C. -M.; Chen, W. -T.; Cheng, P. -Y.; Kuo, C. -N.; Lue, C. -S.; Lee, C. -C.; Huang, C. -L.	Electrical transport and electronic properties of multiband metallic PdSn ₂	PHYSICAL REVIEW B	108	20	205133	2023	11
張鼎張	Tan, Yung-Fang; Chen, Min-Chen; Yeh, Yu-Hsuan; Wu, Chung-Wei; Tsai, Tsung-Ming; Chang, Ting-Chang; Chou, Sheng-Yao; Huang, Yen-Che; Sze, Simon M.	Utilizing high pressure hydrogen annealing to realize forming free CBRAM	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	296		116619	2023	10
陳易馨	Wu, Chi-En; Kirova, Teodora; Auzins, Marcis; Chen, Yi-Hsin	Rydberg-Rydberg interaction strengths and dipole blockade radii in the presence of Förster resonances	OPTICS EXPRESS	31	22	37094-37104	2023	10
莊豐權	Sino, Paul Albert L.; Lin, Tzu-Chieh; Wani, Sumayah; Lee, Ling; Chen, Chieh-Ting; Liu, Ming-Jin; Kuo, Yao-Zen; Rehman, Bushra; Le, Kim Tuyen; Wu, Jyh-Ming; Chuang, Feng-Chuan; Chueh, Yu-Lun	Controllable structure-engineered janus and alloy polymorphic monolayer transition metal dichalcogenides by plasma-assisted selenization process toward high-yield and wafer-scale production	MATERIALS TODAY	69		97-106	2023	10
陳柏勳	Huang, Jen-Wei; Chen, Po-Hsun; Yeh, Tsung-Han; Yang, Chih-Cheng	Investigating the Effects of Sulfur Treatment on Material Characteristics and Resistance Switching Device Applications with Supercritical Fluid Technique	PHYSICAL STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE	220	19	2300453	2023	10

范越芳	Le, Top Khac; Mai, The-Hung; Iqbal, Muhammad Aamir; Vernardou, Dimitra; Dao, Van-Duong; Ponnusamy, Vinoth Kumar; Rout, Chandra Sekhar; Pham, Phuong V.	Advances in solar energy harvesting integrated by van der Waals graphene heterojunctions	RSC ADVANCES	13	44	31273-31291	2023	10
關郁倫	Zhang, Dong-Ting; Liu, Mao-Cheng; Li, Min-Peng; Chen, Hao; Li, Chen-Yang; Hu, Yu-Xia; Kong, Ling-Bin; Zhang, Xiang-Yun; Gu, Bing-Ni; Liu, Ming-Jin; Zhao, Kun; Ren, Jun-Qiang; Yuan, Zi-Zhou; Chueh, Yu-Lun	Design of a potassiophilic 3D conductive scaffold potassium anode (3D-CTZ@K) with dendrite-free and high energy-power density in potassium metal batteries	JOURNAL OF MATERIALS CHEMISTRY A	11	38	20741-20751	2023	10
陳柏勳	Chen, Po-Hsun; Zheng, Yu-Zhe; Yeh, Tsung-Han; Nieh, Tzu-Yun	Investigating DC and AC degradation behaviors to P-type low temperature polycrystalline silicon thin film transistor with fin-like structure	JOURNAL OF PHYSICS D-APPLIED PHYSICS	56	43	435101	2023	10
關郁倫	Chaudhary, Mayur; Yang, Tzu-Yi; Chen, Chieh-Ting; Lai, Po-Chien; Hsu, Yu-Chieh; Peng, Yu-Ren; Kumar, Ashish; Lee, Chih-Hao; Chueh, Yu-Lun	Emulating Neuromorphic and In-Memory Computing Utilizing Defect Engineering in 2D-Layered WSeOx and WSe2 Thin Films by Plasma-Assisted Selenization Process	ADVANCED FUNCTIONAL MATERIALS	33	38		2023	9
孫士傑	Lee, Ying-Zhe; Sun, Shih-Jye	Topological behaviors in Kondo insulators	PHYSICAL REVIEW E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	153			2023	9
張鼎張	Tu, Yu-Fa; Huang, Jen-Wei; Chang, Ting-Chang; Hung, Yang-Hao; Lu, I-Nien; Zhou, Kuan-Ju; Sun, Li-Chuan; Chen, Yu-An; Wu, Chia-Chuan; Hung, Wei-Chieh; Lee, Jason; Lien, Chen-Hsin	Asymmetric Electrode Structure Induces Dual-Channel Phenomenon Under Hot-Carrier Stress in Organic Thin-Film Transistors	IEEE ELECTRONIC DEVICE LETTERS	44	9	1496-1499	2023	9
張鼎張	Wang, Min-Chuan; Wu, Bo-Hsien; Liu, Shang-En; Li, Yu-Chen; Lin, Shih-Kai; Tsai, Tsung-Ming; Chang, Ting-Chang	A solid-state semiconductor battery with silica-coated TiO2 core-shell energy storage nanoparticles for rechargeable device application	AIP ADVANCES	13	9	201-264	2023	9
郭政育	Chen, Ming-Tang; (中略); Kuo, Cheng-Yu; Park, Jongho	The Greenland Telescope-Construction, Commissioning, and Operations in Pituffik	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC	135	1051	id.095001, page 1~25	2023	9

呂浩宇	Xu, Wenrui; Ohashi, Satoshi; Aso, Yusuke; Liu, Hanyu Baobab	Gravitational Instability, Spiral Substructure, and Modest Grain Growth in a Typical Protostellar Disk: Modeling Multiwavelength Dust Continuum Observations of TMC1A	ASTROPHYSICAL JOURNAL	954	2	1~12	2023	9
蘇萬生	Chen, Kai; Zhou, Jian; Zhao, Wuyan; Yang, Riyi; Qiao, Chong; Su, Wan-Sheng; Zheng, Yuxiang; Zhang, Rongjun; Chen, Liangyao; Wang, Songyou	Structural, mechanical, electronic and optical properties of biphenylene hydrogenation: a first-principles study	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	25	36	24797-24808	2023	9
張鼎張	Tu, Yu-Fa; Huang, Jen-Wei; Chang, Ting-Chang; Hung, Yang-Hao; Tai, Mao-Chou; Chen, Jian-Jie; Lin, Shih-Kai; Zhou, Kuan-Ju; Chien, Ya-Ting; Huang, Hui-Chun; Lien, Chen-Hsin	Stably Saturated Output Current Characteristics and Hot-Carrier Reliability of a-InGaZnO Thin-Film Transistors With Source-Connected Field Plate	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	9	4669-4673	2023	9
闕郁倫	Xu, Zhi-Qiang; Zou, Rong; Liu, Wen-Wu; Liu, Guang-Long; Cui, Yun-Shou; Lei, Yi-Xiao; Zheng, Ya-Wen; Nu, Wen-Jun; Wu, You-Zhi; Gu, Bing-Ni; Liu, Ming-Jin; Ran, Fen; Chueh, Yu-Lun	Design of atomic cobalt selenide-doped sulfurized polyacrylonitrile cathode with enhanced electrochemical kinetics for high performance lithium-SPAN batteries	CHEMICAL ENGINEERING JOURNAL	471			2023	9
陳易馨	Bongjune Kim, Ko-Tang Chen, Kuei-You Chen, Yu-Shan Chiu, Chia-Yu Hsu, Yi-Hsin Chen, Ite A. Yu	Experimental Demonstration of Stationary Dark-State Polaritons Dressed by Dipole-Dipole Interaction	PHYSICAL REVIEW LETTERS	131	13	133001	2023	9
周雄	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Poojitha, Bommareddy; Sahoo, Priyambada; Liu, H. L.; Dixit, A.; Wang, C. W.; Yen, T. W.; Hsieh, M. -j.; Lin, J. -y.; Krishnamurthy, Jyothinagaram; Lai, Y. C.; Chou, H.; Kuo, T. W.; Pal, Arkadeb; Yang, H. D.	Spin-phonon-charge coupling in the two-dimensional honeycomb lattice compound Ni ₂ Te ₃ O ₈	PHYSICAL REVIEW B	108	7	75113	2023	8
黃旭明	Huang, Shiu-Ming; Tu, Tzu-Yueh; Wang, Pin-Cing; Li, Chang -Yu; Chou, Mitch; Wu, Hao-Ting; Hsieh, Yue-Cheng; Chen, Ruei-San	The oxidation enhancement photocurrent response in WSe _{1.95} Te _{0.05} nanosheets	APPLIED SURFACE SCIENCE	628		159488	2023	8
呂浩宇	Terada, Yuka; Liu, Hanyu Baobab; Mkrtchian, David; Sai, Jinshi; Konishi, Mihoko; Jiang, Ing-Guey; Muto, Takayuki; Hashimoto, Jun; Tamura, Motohide	Anisotropic Ionizing Illumination from an M-type Pre-main-sequence Star, DM Tau	ASTROPHYSICAL JOURNAL	953	2	1~10	2023	8
張鼎張	Yeh, Yu-Hsuan; Chen, Wen-Chung; Chang, Ting-Chang; Tan, Yung-Fang; Wu, Chung-Wei; Zhang, Yong-Ci; Lee, Ya-Huan; Lin, Chao Cheng; Huang, Hui-Chun; Sze, Simon M.	Degradation mechanism differences between TiN- and TaN-electrode HZO-based FeRAMs analyzed by current mechanism fitting	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	38	8	85004	2023	8

范越芳	Do, Huy-Binh; Luc, Quang-Ho; Pham, Phuong V.; Phan-Gia, Anh-Vu; Nguyen, Thanh-Son; Le, Hoang-Minh; De Souza, Maria Merlyne; Luo, Xiao; Yao, Bo; Mohseni, Parsian K.	Metal-Induced Trap States: The Roles of Interface and Border Traps in HfO2/InGaAs	MICROMA CHINES	14	8		2023	8
張鼎張	Yeh, Chien-Hung; Chen, Po-Hsun; Chang, Ting-Chang; Chang, Kai-Chun; Wang, Yu-Xuan; Kuo, Ting-Tzu; Zhang, Yong-Ci; Lin, Jia-Hong; Lee, Ya-Huan; Kuo, Hung-Ming; Yen, Wei-Ting; Tsai, I-Ting; Sze, Simon M.	Abnormal on Current Tendency in Saturation Region Between High and Light Carbon Doped Buffer Layer in p-GaN HEMT	IEEE ELECTRON DEVICE LETTERS	44	7	1164-1167	2023	7
張鼎張	Lin, Yu-Chung; Lo, Ikai; Tsai, Cheng-Da; Wang, Ying-Chieh; Huang, Hui-Chun; Li, Chu-An; Chou, Mitch M. C.; Chang, Ting-Chang	Optimization of Ternary InxGa1-xN Quantum Wells on GaN Microdisks for Full-Color GaN Micro-LEDs	NANOMAT ERIALS	13	13		2023	7
鄭橙懋	Shiu, Hung-Wei; Chuang, Tzu-Hung; Cheng, Cheng-Maw; Chen, Chia-Hao; Hsu, Yao-Jane; Wei, Der-Hsin	When microscopy meets soft X-ray at TLS and TPS	JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA	266		147363	2023	7
蘇萬生	Zhou, Jian; Ma, Fengyang; Chen, Kai; Zhao, Wuyan; Yang, Riyi; Qiao, Chong; Shen, Hong; Su, Wan-Sheng; Lu, Ming; Zheng, Yuxiang; Zhang, Rongjun; Chen, Liangyao; Wang, Songyou	The luminescence mechanism of ligand-induced interface states in silicon quantum dots	NANOSCALE ADVANCES	5	15	3896-3904	2023	7
張鼎張	Hung, Wei-Chun; Tu, Yu-Fa; Chang, Ting-Chang; Tai, Mao-Chou; Chen, Kuan-Hsu; Jin, Fu-Yuan; Yeh, Chien-Hung; Hung, Wei-Chieh; Chang, Chin-Han; Kuo, Hung-Ming; Lien, Chen-Hsin	Abnormal Two-Stage Degradation Under Hot Carrier Injection With Lateral Double-Diffused MOS With 0.13- μ m Bipolar-CMOS-DMOS Technology	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	7	3419-3423	2023	7
闕郁倫	Chaudhary, Mayur; Shih, Yu-Chuan; Tang, Shin-Yi; Yang, Tzu-Yi; Kuo, Tzu-Wen; Chung, Chia-Chen; Shen, Ying-Chun; Anbalagan, Aswin kumar; Lee, Chih-Hao; Hou, Tuo-Hung; He, Jr-Hau; Chueh, Yu-Lun	Phase/Interfacial-Engineered Two-Dimensional-Layered WSe2 Films by a Plasma-Assisted Selenization Process: Modulation of Oxygen Vacancies in Resistive Random-Access Memory	ACS APPLIED MATERIALS & INTERFACES	15	28	33858-33867	2023	7
邱大維	Chiou, Dah-Wei	Delayed-Choice Quantum Erasers and the Einstein-Podolsky-Rosen Paradox	INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS	62	6		2023	6

郭政育	Prather, Ben S.; (中略); Kuo, Cheng-Yu; (後略)	Comparison of Polarized Radiative Transfer Codes Used by the EHT Collaboration	ASTROPHYSICAL JOURNAL	950	1	id 35 : page 1~23	2023	6
郭啟東	Feng, Ting-Mao; Wang, Yi-Fan; Tseng, Heng-Yi; LI, Cheng-Chang; Jau, Hung-Chang; Kuo, Chie-Tong; Lin, Tsung-Heisn; Wang, Chun-Ta	Switching of lasing direction in reconfigurable chiral photonic crystals	OPTICAL MATERIALS EXPRESS	13	6	1555-1562	2023	6
闕郁倫	Wu, Shu-Chi; Lai, Zhengxun; Dong, Ruoting; Tang, Shin-Yi; Wang, Kuangye; Yang, Tzu-Yi; Shen, Ying-Chun; Liao, Hsiang-Ju; Su, Teng-Yu; Cheng, Chiou-Ru; Ai, Yuanfei; Chen, Yu-Ze; Wang, Yi-Chung; Lee, Ling; Yu, Yi-Jen; Ho, Johnny C.; Chueh, Yu-Lun	Long-chain alkylammonium organic-inorganic hybrid perovskite for high performance rechargeable aluminon-ion battery	NANO ENERGY	110			2023	6
張鼎張	Wang, Ying-Chieh; Lo, Ikai; Lin, Yu-Chung; Tsai, Cheng-Da; Chang, Ting-Chang	Improvement of Mg-Doped GaN with Shutter-Controlled Process in Plasma-Assisted Molecular Beam Epitaxy	CRYSTALS	13	6	907	2023	6
張鼎張	Yeh, Chien-Hung; Chang, Ting-Chang; Kuo, Ting-Tzu; Hung, Wei-Chieh; Lin, Jia-Hong; Lee, Ya-Huan; Yen, Wei-Ting; Kuo, Hung-Ming; Ciou, Fong-Min; Chang, Kai-Chun; Hung, Wei-Chun	Reliability Enhancement by Doping Boron and Fluorine in Lightly Doped Drain Region of High-Voltage FinFET	IEEE ELECTRON DEVICE LETTERS	44	6	971-974	2023	6
張鼎張	Hung, Wei-Chieh; Jin, Fu-Yuan; Chang, Ting-Chang; Hung, Wei-Chun; Chang, Chin-Han; Chang, Kai-Chun; Yeh, Chien-Hung; Kuo, Ting-Tzu; Hsu, Jui-Tse; Lee, Ya-Huan; Huang, Jen-Wei	Analysis of Hump Effect Induced by Positive Bias Temperature Instability in the Local Oxidation of Silicon n-MOSFETs	IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELIABILITY	23	2	263-268	2023	6
黃信銘	Pal, Arkadeb; Yen, T. W.; Kuo, T. W.; Wang, C. W.; Huang, S. M.; Chou, M. C.; Lai, Y. C.; Chuang, Y. C.; Yanda, P.; Sundaresan, A.; Kunwar, H. S.; Sathe, V. G.; Tiwari, Ajay; Kakarla, D. Chandrasekhar; Yang, H. D.	Unconventional multiferroicity induced by structural distortion and magnetostriction effect in the layered spin-1/2 ferrimagnet Bi ₂ Cu ₅ B ₄ O ₁₄	PHYSICAL REVIEW B	107	18	184430	2023	5
張鼎張	Hung, Wei-Chieh; Hung, Wei-Chun; Chang, Ting-Chang; Tu, Yu-Fa; Chen, Min-Chen; Yeh, Chien-Hung; Kuo, Hung-Ming; Lee, Ya-Huan; Yen, Wei-Ting; Liang, Fu-Chen	Defect Passivation and Reliability Enhancement by Low-Temperature-High-Pressure Hydrogenation in LDMOS With 0.13- μ m Bipolar-CMOS-DMOS Technology	IEEE ELECTRON DEVICE LETTERS	44	5	789-792	2023	5
范越芳	Pham, Phuong V.; Mai, The-Hung; Do, Huy-Binh; Ponnusamy, Vinoth Kumar; Chuang, Feng-Chuan	Integrated Graphene Heterostructures in Optical Sensing	MICROMACHINES	14	5	1060	2023	5

關郁倫	Shen, Ying-Chun; Huang, Yu-Wen; Yang, Tzu-Yi; Yu, Yi-Jen; Kuo, Hao-Chung; Tseng, Tseung-Yuen; Chueh, Yu-Lun	HfO _x -Based Conductive Bridge Random Access Memory with Al ₂ O ₃ Sandglass Nanostructures via Glancing Angle Deposition Technology toward Neuromorphic Applications	ACS APPLIED NANO MATERIALS	6	11	9247-9256	2023	5
周雄	Samoshkina, Yu. E.; Rautskii, M. V.; Neznakhin, D. S.; Stepanova, E. A.; Edelman, I. S.; Chou, Hsiung	Particles-Matrix Bond in ZnCoO:H and ZnCoAlO:H Films: Issues of Magnetism and Spin Injection	MATERIALS	16	10	3659	2023	5
呂浩宇	Liu, Junhao; Zhang, Qizhou; Liu, Haiyu Baobab; Qiu, Keping; Li, Shanghuo; Li, Zhi-Yun; Ho, Paul T. P.; Girart, Josep Miquel; Ching, Tao-Chung; Chen, Huei-Ru Vivien; Lai, Shih-Ping; Rao, Ramprasad; Tang, Ya-wen	Deviation from a Continuous and Universal Turbulence Cascade in NGC 6334 due to Massive Star Formation Activity	ASTROPHYSICAL JOURNAL	949	1	1~11	2023	5
郭政育	Pesce, Dominic W. W.; Braatz, James A. A.; Henkel, Christian; Humphreys, Elizabeth M. L.; Impellizzeri, C. M. Violette; Kuo, Cheng-Yu	183 GHz Water Megamasers in Active Galactic Nuclei: A New Accretion Disk Tracer	ASTROPHYSICAL JOURNAL	948	2	id.134 page 1~18	2023	5
呂浩宇	Yang, Yi; Liu, Haiyu Baobab; Muto, Takayuki; Hashimoto, Jun; Dong, Ruobing; Kanagawa, Kazuhiro; Momose, Munetake; Akiyama, Eiji; Hasegawa, Yasuhiro; Tsukagoshi, Takashi; Konishi, Mihoko; Tamura, Motohide	Multiple Rings and Asymmetric Structures in the Disk of SR 21	ASTROPHYSICAL JOURNAL	948	2	1~13	2023	5
關郁倫	Shen, Ying-Chun; Chen, Chung-Yu; Lee, Ling; Chiang, Chun-Hsiu; Hsu, Yu-Chieh; Cyu, Ruei-Hong; Peng, Yu-Ren; Yu, Yi-Jen; Kuo, Hao-chung; Tseng, Tseung-Yuen; Chueh, Yu-Lun	Two-Dimensional (2D) Materials-Inserted Conductive Bridge Random Access Memory: Controllable Injection of Cations in Vertical Stacking Alignment of MoSe ₂ Layers Prepared by Plasma-Assisted Chemical Vapor Reaction	ACS MATERIALS LETTERS	5	5	1401-1410	2023	5
張鼎張	Kuo, Hung-Ming; Chang, Ting-Chang; Chang, Kai-Chun; Lin, Hsin-Ni; Kuo, Ting-Tzu; Yeh, Chien-Hung; Lee, Ya-Huan; Lin, Jia-Hong; Tsai, Xin-Ying; Huang, Jen-Wei; Sze, Simon	Investigation of Threshold Voltage and Drain Current Degradations in Si ₃ N ₄ /AlGaIn/GaN MIS-HEMTs Under X-Ray Irradiation	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	5	2216-2221	2023	5
狄米契	Giataaganas, Dimitrios	Velocity Laws for Bound States in Asymptotically AdS Geometries	FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS	71		2300030	2023	5

黃信銘	Prashanth, C. H.; Yen, T. W.; Tiwari, Ajay; Athira, P.; Huang, S. M.; Poojitha, Bommareddy; Gulo, D. P.; Liu, H. L.; Wang, C. W.; Lin, Y. K.; Chuang, Y. C.; Lai, Y. C.; Jyothinagaram, Krishnamurthy; Yang, H. D.; Kakarla, D. Chandrasekhar	Interplay of magnetic and electric coupling across the spin density wave to conical magnetic ordering in a BaHoFeO ₄ spin-cluster chain compound	JOURNAL OF ALLOYS AND COMPOUNDS	942		169017	2023	5
范越芳	Muhammad Aamir Iqbal*, Maria Malik, Top Khac Le, Nadia Anwar, Sunila Bakhsh, Wajeehah Shahid, Samiah Shahid, Shaheen Irfan, Mohammed Al-Bahrani, Kareem Morsy, Huy-Binh Do, Vinoth Kumar Ponnusamy*, and Phuong V. Pham*	Technological Evolution of Image Sensing Designed by Nanostructured Materials	ACS Materials Letters	5	4	1027-1060	2023	4
鍾佳民	Kumawat, Sagar Mal; Dwivedi, Gopeshwar Dhar; Su, Pin Fang; Shyu, Wade Sam; Chien, Yi Hsuan; Su, Po Wei; Chung, Chia Min; Fernandez, Nestor Daniel Bermuda; Sun, Shih Jye; Hsu, Chia-Hung; Yang, Song; Chou, Hsiung	Magnetic Field Enhancement in Critical Current and Possible Triplet Superconductivity in LSMO/YBCO/LSMO Heterostructures	JOURNAL OF PHYSICAL CHEMISTRY C	127	14	6861-6872	2023	4
郭政育	Lu, Ru-Sen; (中略); Kuo, Cheng-Yu; (後略)	A ring-like accretion structure in M87 connecting its black hole and jet	NATURE	616	7958	686	2023	4
關郁倫	Zhao, Kun; Sun, Wanru; Li, Suixin; Song, Zhenhua; Zhong, Ming; Zhang, Ding; Gu, Bing-Ni; Liu, Ming-Jin; Fu, Hao; Liu, Hongjie; Meng, Cheng; Chueh, Yu-Lun	Rational design on high-performance triboelectric nanogenerator consisting of silicon carbide@silicon dioxide nanowhiskers/polydimethyl siloxane (SiC@SiO ₂ /PDMS) nanocomposite films	DISCOVER NANO	18	1		2023	4
黃信銘	Chiu, Wei-Chi; Chang, Guoqing; Macam, Genevieve; Belopolski, Ilya; Huang, Shin-Ming; Markiewicz, Robert; Yin, Jia-Xin; Cheng, Zi-Jia; Lee, Chi-Cheng; Chang, Tay-Rong; Chuang, Feng-Chuan; Xu, Su-Yang; Lin, Hsin; Hasan, M. Zahid; Bansil, Arun	Causal structure of interacting Weyl fermions in condensed matter systems	NATURE COMMUNICATIONS	14	1	2228	2023	4
張鼎張	Tan, Yung-Fang; Chang, Kai-Chun; Tsai, Tsung-Ming; Chang, Ting-Chang; Chen, Wen-Chung; Yeh, Yu-Hsuan; Wu, Chung-Wei; Lin, Chao-Cheng; Sze, Simon M.	Implementing Boolean Logic in Ferroelectric Field-Effect Transistors	ADVANCED ELECTRONIC MATERIALS	9	4	2201137	2023	4
陳柏勳	Chen, Po-Hsun; Chen, Hong-Chih; Kuo, Chuan-Wei郭娟瑋; Chen, Jian-Jie; Huang, Hui-Chun	Function of a Dual-Active-Layer Amorphous Indium-Gallium-Zinc Oxide Thin-Film Transistor with Ultraviolet-Induced Effects	ACS APPLIED ELECTRONIC MATERIALS	5	4	2065-2072	2023	4

張鼎張	Sun, Li-Chuan; Lin, Shih-Kai; Yeh, Yu-Hsuan; Tu, Yu-Fa; Tan, Yung-Fang; Zhou, Kuan-Ju; Tsai, Tsung-Ming; Chang, Ting-Chang	Investigation Between Recover Behavior and Defect With Variation of Light Source in AlGaIn/GaN HEMTs After Hot-Carrier Stress	IEEE ELECTRON DEVICE LETTERS	44	4	586-589	2023	4
張鼎張	Hung, Wei-Chun; Lin, Jia-Hong; Chang, Ting-Chang; Zheng, Yu-Zhe; Hung, Yang-Hao; Chen, Yu-An; Wang, Li-Wen; Tsai, Chia-Hung; Ogier, Simon	Improving Hot Carrier Reliability of Organic-TFTs by Extended Electrode	IEEE ELECTRON DEVICE LETTERS	44	4	626-629	2023	4
闕郁倫	Wang, Kuangye; Lee, Ling; Loo, Sueh Liang; Yang, Tzu-Yi; Chen, Chieh-Ting; Kuo, Tzu-Wen; Chen, Jeng-Lung; Kuo, Hao-chung; Chueh, Yu-Lun	Controllable Vertical Nitrogen Doping in Nanoscaled Molybdenum Diselenide Films for Selective Sensing of NH ₃ and NO ₂ Gases	ACS APPLIED NANO MATERIALS	6	7	5336-5344	2023	4
陳宗緯	Hsu, Hsiu-Chuan; Chen, Tsung-Wei	Spin current and internal Zeeman field in spin-orbit coupled rings	PHYSICAL REVIEW B	107	12		2023	3
黃信銘	Yao, Xiaohan; Gaudet, Jonathan; Verma, Rahul; Graf, David E.; Yang, Hung-Yu; Bahrami, Faranak; Zhang, Ruiqi; Aczel, Adam A.; Subedi, Sujun; Torchinsky, Darius H.; Sun, Jianwei; Bansil, Arun; Huang, Shin-Ming; Singh, Bahadur; Blaha, Peter; Nikolic, Predrag; Tafti, Fazel	Large Topological Hall Effect and Spiral Magnetic Order in the Weyl Semimetal SmAlSi	PHYSICAL REVIEW X	13	1		2023	3
陳柏勳	Chen, Po-Hsun; Su, Yu-Ting; Huang, Wei-Chen; Wu, Chung-Wei	Improving High Resistance State in One-Transistor-One-Resistor (1T1R) Structure Resistance Random Access Memory With a Body-Biased Method	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	3	1014-1018	2023	3
張鼎張	Wu, Chia-Chuan; Ma, William Cheng-Yu; Chang, Ting-Chang; Wang, Yu-Xuan; Tai, Mao-Chou; Tu, Yu-Fa; Chen, Yu-An; Tu, Hong-Yi; Chien, Ya-Ting; Chang, Han-Yu; Huang, Bo-Shen	Abnormal Degradation Behaviors Under Negative Bias Stress in Flexible p-Channel Low-Temperature Polycrystalline Silicon Thin-Film Transistors After Laser Lift-Off Process	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	3	1079-1084	2023	3
張鼎張	Chien, Ya-Ting; Zhou, Kuan-Ju; Tai, Mao-Chou; Chen, Yu-An; Sun, Pei-Jun; Lee, Ya-Huan; Chang, Ting-Chang; Tsai, Tsung-Ming; Fan, Yang-Shun; Huang, Chen-Shuo; Chen, Kuo-Kuang; Tsai, Chih-Hung	Impact of Variant Gate Insulator Fabrication Process on Reliability of Dual-Gate InGaZnO Thin-Film Transistors	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	3	1089-1094	2023	3
呂浩宇	Liu, Junhao; Zhang, Qizhou; Koch, Patrick M.; Liu, Haoyu Baobab; Li, Zhi-Yun; Li, Shanghuo; Girart, Josep Miquel; Chen, Huei-Ru Vivien; Ching, Tao-Chung; Ho, Paul T. P.; Lai, Shih-Ping; Qiu, Keping; Rao, Ramprasad; Tang, Ya-wen	Multi-scale Physical Properties of NGC 6334 as Revealed by Local Relative Orientations between Magnetic Fields, Density Gradients, Velocity Gradients, and Gravity	ASTROPHYSICAL JOURNAL	945	2	1~22	2023	3

張鼎張	Chang, Han-Yu; Chang, Ting-Chang; Tai, Mao-Chou; Huang, Bo-Shen; Zhou, Kuan-Ju; Wang, Yu-Bo; Kuo, Hung-Ming; Huang, Jen-Wei	Channel migration of dual channel a-InGaZnO TFTs under negative bias illumination stress	APPLIED PHYSICS LETTERS	122	12	123504	2023	3
莊豐權	Fujisawa, Yuita; Pardo-Almanza, Markel; Hsu, Chia-Hsiu; Mohamed, Atwa; Yamagami, Kohei; Krishnadas, Anjana; Chang, Guoqing; Chuang, Feng-Chuan; Khoo, Khoong Hong; Zang, Jiadong; Soumyanarayanan, Anjan; Okada, Yoshinori	Widely Tunable Berry Curvature in the Magnetic Semimetal Cr1+ δ Te2	ADVANCED MATERIALS	35	12	2207121	2023	3
張鼎張	Bamao, Anhe; Xia, Yaxin; Ma, Guokun; Yuan, Xiaoxu; Yang, Zisheng; Chen, Ao; Lin, Chun-Chu; Chang, Ting-Chang; Wang, Hao	Realization of memristor and synaptic simulation behaviors based on LiNbOx	CERAMICS INTERNATIONAL	49	6	10083-10088	2023	3
范越芳	Iqbal, Muhammad Aamir; Anwar, Nadia; Malik, Maria; Al-Bahrani, Mohammed; Islam, Md. Rasidul; Choi, Jeong Ryeol; Pham, Phuong V.; Liu, Xiaofeng	Nanostructures/Graphene/Silicon Junction-Based High-Performance Photodetection Systems: Progress, Challenges, and Future Trends	ADVANCED MATERIALS INTERFACES	10	7		2023	3
張鼎張	Dong, Boyi; Li, Peixuan; Fu, Yaoyao; Chang, Ting-Chang; Li, Yi; Miao, Xiang-Shui; He, Yuhui	Study on Memristor-Based 3-D Convolutional Neural Network Adapting to Non-Ideal Effects	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	3	993-1000	2023	3
張鼎張	Chen, Jian-Jie; Chen, Min-Chen; Chang, Ting-Chang; Chen, Hong-Chih; Zhou, Kuan-Ju; Kuo, Chuan-Wei; Yang, Chih-Cheng; Wu, Pei-Yu; Shih, Chih-Cheng; Huang, Jen-Wei	Application of SCF-LTDP technology for a-Si:H film defective passivation in X-ray PIN-based photosensor	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	156	15	107264	2023	3
黃信銘	Lin, Min-Ruei; Li, Wan-Ju; Huang, Shin-Ming	Quaternion-based machine learning on topological quantum systems	MACHINE LEARNING-SCIENCE AND TECHNOLOGY	4	1	15頁	2023	3
張鼎張	Zhou, Kuan-Ju; Chen, Min-Chen; Chang, Ting-Chang; Lin, Shih-Kai; Wang, Yu-Bo; Zhang, Yong-Ci; Yen, Po-Yu; Shao, Kui-You; Huang, Hui-Chun; Huang, Jen-Wei; Sze, Simon M.	Interfacial variation in HfO2-based resistive switching devices with titanium electrodes under asymmetric bias operation	JOURNAL OF PHYSICS D-APPLIED PHYSICS	56	6	65101	2023	2
張鼎張	Chou, Sheng-Yao; Wu, Pei-Yu; Chen, Ming-Chen; Chang, Ting-Chang; Tsai, Xin-Ying; Lin, Shih-Kai; Kuo, Ting-Tzu; Huang, Wei-Chen; Tu, Hong-Yi; Wu, Chung-Wei; Tsai, Tsung-Ming; Huang, Jen-Wei	Performance Improvement by Enhancing Passivation Layer of p-Type GaN High-Electron Mobility Transistors With Supercritical Oxygen Treatment	IEEE ELECTRON DEVICE LETTERS	44	2	213-216	2023	2

郭政育	Jorstad, Svetlana; (中略); Kuo, Cheng-Yu; (後略)	The Event Horizon Telescope Image of the Quasar NRAO 530	ASTROPHYSICAL JOURNAL	943	2	id.170 page 1~19	2023	2
鄭橙懋	Chiang, P. -C.; Lin, S. C.; Chiang, C. -Y.; Ku, C. -S.; Huang, S. W.; Lee, J. M.; Chuang, Y. -D.; Lin, H. J.; Liao, Y. F.; Cheng, C-M.; Haw, S. C.; Chen, J. M.; Chu, Y. -H.; Do, T. H.; Luo, C. -W.; Juang, J. -Y.; Wu, K. H.; Chang, Y. -W.; Yang, J. -C.; Lin, J. -Y.	Emergent quasi-two-dimensional metallic state derived from the Mott-insulator framework	PHYSICAL REVIEW B	107	7	75104	2023	2
黃信銘	Pal, Arkadeb; Anand, Khyati; Yen, T. W.; Patra, Atanu; Das, A.; Huang, S. M.; Blundo, E.; Polimeni, A.; Yang, H. D.; Chatterjee, Sandip	Magnetic properties and coupled spin-phonon behavior in quasi-one-dimensional screw-chain compound BaMn2V2O8	PHYSICAL REVIEW MATERIALS	7	1	14402	2023	1
呂浩宇	Galvan-Madrid, Roberto; Zhang, Qizhou; Izquierdo, Andres; Law, Charles J.; Peters, Thomas; Keto, Eric; Liu, Haoyu Baobab; Ho, Paul T. P.; Ginsburg, Adam; Carrasco-Gonzalez, Carlos	Clustered Formation of Massive Stars within an Ionized Rotating Disk	ASTROPHYSICAL JOURNAL LETTERS	942	1	1~12	2023	1
闕郁倫	Niu, Wen-Jun; Yan, Ying-Yun; Li, Ru-Ji; Zhao, Wei-Wei; Chen, Jiang-Lei; Liu, Ming-Jin; Gu, Bingni; Liu, Wen-Wu; Chueh, Yu-Lun	Identifying the impact of Fe nanoparticles encapsulated by nitrogen-doped carbon to Fe single atom sites for boosting oxygen reduction reaction toward Zn-air batteries	CHEMICAL ENGINEERING JOURNAL	456			2023	1
張鼎張	Jin, Fu-Yuan; Chen, Po-Hsun; Hung, Wei-Chun; Hung, Wei-Chieh; Chang, Chin-Han張景涵; Ciou, Fong-Min; Lin, Yu-Shan; Chang, Kai-Chun; Lin, Yun-Hsuan; Kuo, Ting-Tzu; Chen, Kuan-Hsu; Yeh, Chien-Hung; Chang, Ting-Chang	Analysis of Breakdown-Voltage Increase on SiC Junction Barrier Schottky Diode Under Negative Bias Stress	IEEE TRANSACTIONS ON ELECTRON DEVICES	70	1	191-195	2023	1
闕郁倫	Lee, Ling; Chiang, Chun-Hsiu; Shen, Ying-Chun; Wu, Shu-Chi; Shih, Yu-Chuan; Yang, Tzu-Yi; Hsu, Yu-Chieh; Cyu, Ruei-Hong; Yu, Yi-Jen; Hsieh, Shang-Hsien; Chen, Chia-Hao; Lebedev, Mikhail; Chueh, Yu-Lun	Rational Design on Polymorphous Phase Switching in Molybdenum Diselenide-Based Memristor Assisted by All-Solid-State Reversible Intercalation toward Neuromorphic Application	ACS NANO	17	1	84-93	2023	1
黃旭明	6. Shiu-Ming Huang, Pin-Cing Wang, Kuo-Yi Hung, Fu-En Cheng, Chang-Yu Li and Mitch Chou	The temperature-independent paramagnetism susceptibility peak at zero magnetic fields in the non-topological WSe2 single crystal	Results in Physics	44		106126	2023	1