

教師姓名	作者群	論文名稱	期刊名稱	發表年	發表月
張鼎張	Wang, Ting-Hao; Wang, Ming-Hui; Shih, Chih-Cheng; Lu, Ying-Hsin; Zheng, Hao-Xuan; Tseng, Yi-Ting; Hu, Wen-Long; Chang, Ting-Chang; Hung, Yu-Chiang	Comparison of physical electrical conductivity and acupuncture de-qi sensation between stainless steel needling and supercritical fluid-treated needling	BIOMEDICAL JOURNAL	2021	12
郭啟東	Lin, Jia-De; Wu, Po-Chen; Mo, Ting-Shan; Huang, Bing-Yau; Kuo, Chie-Tong; Lee, Chia-Rong	Controllable Liquid Crystal Micro Tube Laser	CRYSTALS	2021	12
闕郁倫	Liu, Mao-Cheng; Zhang, Bin-Mei; Zhang, Yu-Shan; Gu, Bing-Ni; Tian, Chen-Yang; Zhang, Dong-Ting; Wang, Ya-Qin; Zhao, Bei; Wang, Yuan-Yi; Liu, Ming-Jin; Yu, Yi-Jen; Zhao, Kun; Kong, Ling-Bin; Chueh, Yu-Lun	Regulating interlayer spacing with pillar and strain structures in Ti ₃ C ₂ MXene layers by molecular welding for superior alkali metal ion storage	MATERIALS TODAY ENERGY	2021	12
鄭橙懋	Su, Shu-Hsuan; Chang, Jen-Te; Chuang, Pei-Yu; Tsai, Ming-Chieh; Peng, Yu-Wei; Lee, Min Kai; Cheng, Cheng-Maw; Huang, Jung-Chung Andrew	Epitaxial Growth and Structural Characterizations of MnBi ₂ Te ₄ Thin Films in Nanoscale	NANOMATERIALS	2021	12
張鼎張	Chen, Jian-Jie; Chen, Po-Hsun; Chang, Ting-Chang; Tu, Yu-Fa; Zhou, Kuan-Ju; Kuo, Chuan-Wei; Hung, Wei-Chun; Wu, Pei-Yu; Huang, Hui-Chun	Highly-Doped Region Optimization for Reduced Hot-Carrier Effects in Dual-Gate Low Temperature Polysilicon TFTs	IEEE ELECTRON DEVICE LETTERS	2021	12
周雄	Dwivedi, G. D.; Kumawat, S. M.; Shyu, W. S.; Chien, Y. H.; Su, P. F.; Huang, Z. H.; Haw, S. C.; Chen, J. M.; Chou, H.; Chatterjee, S.	Correlating X-ray absorption spectra and ultraviolet photoelectron spectra to understand magnetic and transport properties of charge-ordered perovskite manganites	APPLIED SURFACE SCIENCE	2021	12
楊弘敦	Dwivedi, G. D.; Kumawat, S. M.; Yen, Tsung-Wen; Wang, C. W.; Kakarla, D. Chandrasekhar; Joshi, Amish G.; Yang, H. D.; Huang, Shin-Ming; Chou, H.	Understanding the correlation between orbital degree of freedom, lattice-striction and magneto-dielectric coupling in ferrimagnetic Mn _{1.5} Cr _{1.5} O ₄	JOURNAL OF PHYSICS-CONDENSED MATTER	2021	12

黃信銘	Dwivedi, G. D.; Kumawat, S. M.; Yen, Tsung-Wen; Wang, C. W.; Kakarla, D. Chandrasekhar; Joshi, Amish G.; Yang, H. D.; Huang, Shin-Ming; Chou, H.	Understanding the correlation between orbital degree of freedom, lattice-striction and magneto-dielectric coupling in ferrimagnetic Mn _{1.5} Cr _{1.5} O ₄	JOURNAL OF PHYSICS-CONDENSED MATTER	2021	12
周雄	Dwivedi, G. D.; Kumawat, S. M.; Yen, Tsung-Wen; Wang, C. W.; Kakarla, D. Chandrasekhar; Joshi, Amish G.; Yang, H. D.; Huang, Shin-Ming; Chou, H.	Understanding the correlation between orbital degree of freedom, lattice-striction and magneto-dielectric coupling in ferrimagnetic Mn _{1.5} Cr _{1.5} O ₄	JOURNAL OF PHYSICS-CONDENSED MATTER	2021	12
闕郁倫	Niu, Wen-Jun; Sun, Qiao-Qiao; Wang, Ya-Ping; Gu, Bing-Ni; Liu, Ming-Jin; He, Jin-Zhong; Chen, Jiang-Lei; Chung, Chia-Chen; Liu, Wen-Wu; Chueh, Yu-Lun	Design of Co Nanoparticles-Encapsulated by Boron and Nitrogen Co-Doped Carbon Nanosheets as Highly Efficient Electrocatalyst for Oxygen Reduction Reaction	ADVANCED MATERIALS INTERFACES	2021	12
闕郁倫	Wu, Shu-Chi; Huang, Yu-Hsiang; Liao, Cheng-Ru; Tang, Shin-Yi; Yang, Tzu-Yi; Wang, Yi-Chung; Yu, Yi-Jen; Perng, Tsong-Pyng; Chueh, Yu-Lun	Rational design of a polysulfide catholyte electrocatalyst by interfacial engineering based on novel MoS ₂ /MoN heterostructures for superior room-temperature Na-S batteries	NANO ENERGY	2021	12
張鼎張	Chang, Kuan-Chang; Chen, Jung-Hui; Tsai, Tsung-Ming; Chang, Ting-Chang; Huang, Syuan-Yong; Zhang, Rui; Chen, Kai-Huang; Syu, Yong-En; Chang, Geng-Wei; AND MORE	Improvement Mechanism of resistance random access memory with supercritical CO ₂ fluid treatment (vol 85, pg 183, 2014)	JOURNAL OF SUPERCRITICAL FLUIDS	2021	12
闕郁倫	Shen, Ying-Chun; Shih, Yu-Chuan; Wang, Yi-Chung; Wang, Kuangye; Yang, Tzu-Yi; Cyu, Ruei-Hong; Yu, Yi-Jen; Chueh, Yu-Lun	Geometric Design of Confined Conducting Filaments in Resistive Random Access Memory by Al ₂ O ₃ Nanodome-Shaped Arrays (NDSAs) via Glancing-Angle Deposition Technology Toward Neuromorphic Computing	ACS MATERIALS LETTERS	2021	12
黃旭明	Huang, Shiu-Ming; Chen, Pin-Cyuan; Wang, Pin-Cing	The High Coercivity Field in Chemically Bonded WSe ₂ /MoSe ₂ Powder	NANOMATERIALS	2021	12

黃旭明	Huang, Shiu-Ming; Wang, Pin-Cing; Jian, Hao-Lun; Chou, Mitch M. C.	The Magnetic Susceptibility Bifurcation in the Ni-Doped Sb ₂ Te ₃ Topological Insulator with Antiferromagnetic Order Accompanied by Weak	NANOSCALE RESEARCH LETTERS	2021	12
魏德新	Liu, Chia-Chi; Huang, Yen; Chuang, Tzu-Hung; Lin, Deng-Sung; Wei, Der-Hsin	Imaging buried objects with the hard/soft x-ray photoemission electron microscope	JOURNAL OF APPLIED PHYSICS	2021	11
張鼎張	Chien, Ya-Ting; Tsai, Yu-Lin; Zhou, Kuan-Ju; Zheng, Yu-Zhe; Tai, Mao-Chou; Tu, Hong-Yi; Kuo, Chuan-Wei; Chang, Ting-Chang; Tsai, Tsung-Ming	Performance Enhancement of InGaZnO Top-Gate Thin Film Transistor With Low-Temperature High-Pressure Fluorine Treatment	IEEE ELECTRON DEVICE LETTERS	2021	11
闕郁倫	Wang, Hsiao-Chien; Hsu, Chih-Ming; Gu, Bingni; Chung, Chia-Chen; Wu, Shu-Chi; Ilango, P. Robert; Huang, Jian-Shiou; Yen, Wen-Chun; Chueh, Yu-Lun	Glancing angle deposition of large-scale helical Si@Cu ₃ Si nanorod arrays for high-performance anodes in rechargeable Li-ion batteries	NANOSCALE	2021	11
張鼎張	Chang, Yen-Cheng; Lin, Chien-Yu; Chang, Ting-Chang; Lin, Yun-Hsuan; Chen, Kuan-Hsu; Jin, Fu-Yuan; Lin, Yu-Shan; Ciou, Fong-Min; Chang, Kai-Chun; Hung, Wei-Chun; Kuo, Ting-Tzu; Yeh, Chien-Hung	Investigation of degradation behavior under negative bias temperature stress in Si/Si _{0.8} Ge _{0.2} metal-oxide-semiconductor capacitors	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2021	11
李定國	Huang, H. Y.; Singh, A.; Mou, C. Y.; Johnston, S.; Kemper, A. F.; van den Brink, J.; Chen, P. J.; Lee, T. K.; Okamoto, J.; Chu, Y. Y.; Li, J. H.; Komiya, S.; Komarek, A. C.; Fujimori, A.; Chen, C. T.; Huang, D. J.	Quantum Fluctuations of Charge Order Induce Phonon Softening in a Superconducting Cuprate	PHYSICAL REVIEW X	2021	11

蔡秀芬	Huang, Po-Cheng; Huang, Shao-Ku; Lai, Ting-Chun; Shih, Min-Chuan; Hsu, Hung-Chang; Chen, Chun-Hsiang; Lin, Cheng-Chieh; Chiang, Chun-Hao; Lin, Chi-Ying; Tsukagoshi, Kazuhito; Chen, Chun-Wei; Chiu, Ya-Ping; Tsay, Shiow-Fon; Wang, Ying-Chiao	Visualizing band alignment across 2D/3D perovskite heterointerfaces of solar cells with light-modulated scanning tunneling microscopy	NANO ENERGY	2021	11
郭建成	Dhanarajgopal, Alltrin; Chang, Po-Chun; Liu, Shi-Yu; Chuang, Tzu-Hung; Wei, Der-Hsin; Kuo, Chien-Cheng; Kuo, Chia-Nung; Lue, Chin Shan; Lin, Wen-Chin	Interfacial magnetic coupling in Co/antiferromagnetic van der Waals compound FePS3	APPLIED SURFACE SCIENCE	2021	11
闕郁倫	Shen, Ying-Chun; Wu, Yu-Ting; Lee, Ling; Chen, Jyun-Hong; Wani, Sumayah Shakil; Yang, Tzu-Yi; Luo, Chih Wei; Siao, Ming-Deng; Yu, Yi-Jen; Chiu, Po-Wen; Chueh, Yu-Lun	Rational Design on Wrinkle-Less Transfer of Transition Metal Dichalcogenide Monolayer by Adjustable Wettability-Assisted Transfer Method	ADVANCED FUNCTIONAL MATERIALS	2021	11
闕郁倫	Shih, Yu-Chuan; Shen, Ying-Chun; Cheng, Yen-Kai; Chaudhary, Mayur; Yang, Tzu-Yi; Yu, Yi-Jen; Chueh, Yu-Lun	Rational Design on Controllable Cation Injection with Improved Conductive-Bridge Random Access Memory by Glancing Angle Deposition Technology toward Neuromorphic Application	ACS APPLIED MATERIALS & INTERFACES	2021	11
張鼎張	Sood, Apoorva; Tarntair, Fow-Gow; Wang, Yu-Xuan; Chang, Ting-Chang; Chen, Yu-Hsuan; Liu, Po-Liang; Horng, Ray-Hua	Performance enhancement of ZnGa2O4 Schottky type deep-ultraviolet photodetectors by oxygen supercritical fluid treatment	RESULTS IN PHYSICS	2021	10
闕郁倫	Tong, Sheng-Kai; Chang, Ji-Hong; Hao, Yong-Han; Wu, Ming-Ru; Wei, Da-Hua; Chueh, Yu-Lun	Optimum resistive switching characteristics of NiFe2O4 by controlling film thickness	APPLIED SURFACE SCIENCE	2021	10

莊豐權	Sufyan, Ali; Macam, Gennevieve; Hsu, Chia-Hsiu; Huang, Zhi-Quan; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Theoretical prediction of topological insulators in two-dimensional ternary transition metal chalcogenides ($MM'X_4$, $M = Ta, Nb, \text{ or } V$; $M' = Ir, Rh, \text{ or } Co$; $X = Se \text{ or } Te$)	CHINESE JOURNAL OF PHYSICS	2021	10
黃信銘	Sufyan, Ali; Macam, Gennevieve; Hsu, Chia-Hsiu; Huang, Zhi-Quan; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Theoretical prediction of topological insulators in two-dimensional ternary transition metal chalcogenides ($MM'X_4$, $M = Ta, Nb, \text{ or } V$; $M' = Ir, Rh, \text{ or } Co$; $X = Se \text{ or } Te$)	CHINESE JOURNAL OF PHYSICS	2021	10
張鼎張	Huang, Wei-Chen; Chen, Po-Hsun; Lin, Chih-Yang; Zheng, Hao-Xuan; Chen, Hong-Chih; Ciou, Fong-Min; Tan, Yung-Fang; Chang, Kai-Chun; Lin, Yun-Hsuan; Chang, Yen-Cheng; Lin, Shih-Kai; Hung, Wei-Chun; Thio, Wesley; Chang, Ting-Chang	Abnormal hump in low temperature in SiGe devices with silicon capping insertion layer	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2021	10
周雄	Sun, Shih-Jye; Chen, Guan-Long; Yu, Chang-Feng; Chou, Hsiung	Model simulation of ferromagnetic magnetization in n-type ZnO	RESULTS IN PHYSICS	2021	10
張鼎張	Peng, Min-Hsuan; Pan, Ching-Yang; Zheng, Hao-Xuan; Chang, Ting-Chang; Jiang, Pei-hsun	Dynamic Behaviors and Training Effects in TiN/Ti/HfO _x /TiN-Nanolayered Memristors with Controllable Quantized Conductance States: Implications for Quantum and Neuromorphic Computing Devices	ACS APPLIED NANO MATERIALS	2021	10
杜立偉	Lin, Che-Min; Chang, Chun-Fu; Hsieh, Wan-Chen; Chang, Ching-Wen; AND MORE; Kei, Chi-Chung; Liao, Chih-Hsiung; Huang, Kung-Shiuh; Huang, Kuan-Tsae; Chen, Di; Chu, Wei-Kan; Tu, Li-Wei; AND MORE	Electrically tunable bandgaps for g-ZnO/ZnX ($X = S, Se, Te$) 2D semiconductor bilayers	VACUUM	2021	10

莊豐權	Telychko, Mykola; Wang, Lulu; Hsu, Chia-Hsiu; Li, Guangwu; Peng, Xinnan; Song, Shaotang; Su, Jie; Chuang, Feng-Chuan; Wu, Jishan; Wong, Ming Wah; Lu, Jiong	Tailoring long-range superlattice chirality in molecular self-assemblies via weak fluorine-mediated interactions	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2021	10
張鼎張	Ciou, Fong-Min; Lin, Jia-Hong; Chen, Po-Hsun; Chang, Ting-Chang; Chang, Kai-Chun; Hsu, Jui-Tse; Lin, Yu-Shan; Jin, Fu-Yuan; Hung, Wei-Chun; Yeh, Chien-Hung; Kuo, Ting-Tzu; Cheng, Osbert; Huang, Cheng-Tung; Ye, Yi-Han	Comparison of the Hot Carrier Degradation of N- and P-Type Fin Field-Effect Transistors in 14-nm Technology Nodes	IEEE ELECTRON DEVICE LETTERS	2021	10
孫士傑	Sun, Shih-Jye; Chen, Guan-Long; Yu, Chang-Feng; Chou, Hsiung	Model simulation of ferromagnetic magnetization in n-type ZnO	RESULTS IN PHYSICS	2021	10
周雄	Sun, Shih-Jye; Wu, Guan-Huei; Hsu, Hua-Shu; Chou, Hsiung	Simulation of anomalous temperature-dependent ferromagnetism in p-type ZnO	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2021	10
鄭澄懋	Su, Shu Hsuan; Chuang, Pei-Yu; Chen, Hsin-Yu; Weng, Shih-Chang; Chen, Wei-Chuan; Tsuei, Ku-Ding; Lee, Chao-Kuei; Yu, Shih-Hsun; Chou, Mitch M-C; Tu, Li-Wei; Jeng, Horng-Tay; Tu, Chien-Ming; Luo, Chih-Wei; Cheng, Cheng-Maw; AND MORE	Topological Proximity-Induced Dirac Fermion in Two-Dimensional Antimonene	ACS NANO	2021	9
杜立偉	Su, Shu Hsuan; Chuang, Pei-Yu; Chen, Hsin-Yu; Weng, Shih-Chang; Chen, Wei-Chuan; Tsuei, Ku-Ding; Lee, Chao-Kuei; Yu, Shih-Hsun; Chou, Mitch M-C; Tu, Li-Wei; AND MORE	Topological Proximity-Induced Dirac Fermion in Two-Dimensional Antimonene	ACS NANO	2021	9

闕郁倫	Liu, W. -W.; Liu, Y. -C.; Cui, C. -Y.; Niu, S. -T.; Niu, W. -J.; Liu, M. -C.; Liu, M. -J.; Gu, B.; Zhang, L. -y.; Zhao, K.; Ran, F.; Chueh, Y. -L.	All-inorganic CsPbBr ₃ perovskite solar cells with enhanced efficiency by exploiting lone pair electrons via passivation of crystal boundary using carbon nitride (g-C ₃ N ₄) nanosheets	MATERIALS TODAY ENERGY	2021	9
闕郁倫	Wang, Yan; Zhou, Jianhao; Zhou, Zhiyu; Lv, Huifang; Gu, Bingni; Wang, Kuangye; Chen, Zexiang; Yan, Xinyu; Zhang, Jijun; Liu, Wen-Wu; Chueh, Yu-Lun	In situ synthesis of Fe ₂ O ₃ nanosphere/Co ₃ O ₄ nanowire-connected reduced graphene oxide hybrid networks for high-performance supercapacitors	NANOSCALE	2021	9
李定國	Hung, T. L.; Huang, C. H.; Deng, L. Z.; Ou, M. N.; Chen, Y. Y.; Wu, M. K.; Huyan, S. Y.; Chu, C. W.; Chen, P. J.; Lee, T. K.	Pressure induced superconductivity in MnSe	NATURE COMMUNICATIONS	2021	9
張鼎張	Niu, Xuerui; Ma, Xiaohua; Hou, Bin; Yang, Ling; Lin, Yu-Shan; Zhu, Qing; Ciou, Fong-Min; Chen, Kuan-Hsu; Chen, Yilin; Du, Jiale; Wu, Mei; Zhang, Meng; Wang, Chong; Chang, Ting-Chang; Hao, Yue	Electrical Degradation of In Situ SiN/AlGa _N /Ga _N MIS-HEMTs Caused by Dehydrogenation and Trap Effect Under Hot Carrier Stress	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	9
莊豐權	Sino, Paul Albert L.; Feng, Liang-Ying; Villaos, Rovi Angelo B.; Cruzado, Harvey N.; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Anisotropic Rashba splitting in Pt-based Janus monolayers PtXY (X, Y = S, Se, or Te)	NANOSCALE ADVANCES	2021	9
莊豐權	Song, Shaotang; Wang, Lulu; Su, Jie; Xu, Zhen; Hsu, Chia-Hsiu; Hua, Chenqiang; Lyu, Pin; Li, Jing; Peng, Xinnan; Kojima, Takahiro; Nobusue, Shunpei; Telychko, Mykola; Zheng, Yi; Chuang, Feng-Chuan; Sakaguchi, Hiroshi; Wong, Ming Wah; Lu, Jiong	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization	CHEMICAL SCIENCE	2021	9

張鼎張	Kuo, Chuan-Wei; Chang, Ting-Chang; Chen, Hong-Chih; Tsao, Yu-Ching; Chen, Jian-Jie; Zhou, Kuan-Ju; Wu, Wen-Chi; Li, Hsin-Chieh; Lin, Chih-Chih; Zhang, Yong-Ci; Tsai, Tsung-Ming; Huang, Jen-	Vertical Electric Field-Induced Abnormal Capacitance-Voltage Electrical Characteristics in a-InGaZnO TFTs	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	9
張鼎張	Wu, Pei-Yu; Chang, Ting-Chang; Chen, Ming-Chen; Zheng, Hao-Xuan; Lin, Yu-Shan; Tsai, Xin-Ying; Chang, Kuo-Jen; Kuo, Wei-Cheng; Lin, Chao-Wei; Liu, Guan-Shian; Tsai, Tsung-Ming	Performance and Reliability Optimization of Supercritical-Nitridation-Treated AlGaIn/GaN High-Electron-Mobility Transistors	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	9
李定國	Chen, Peng-Jen; Li, Wan-Ju; Lee, Ting-Kuo	Cubic Dirac and quadruple Weyl points in screw-symmetric materials	PHYSICAL REVIEW B	2021	9
黃信銘	Hsu, Ming-Chien; Singh, Bahadur; Hsu, Chuang-Han; Xu, Su-Yang; Lin, Hsin; Huang, Shin-Ming	Topological theory of inversion-breaking charge-density-wave monolayer 1T-TiSe ₂	NEW JOURNAL OF PHYSICS	2021	9
狄米契	Giataaganas, D.; Tetradis, N.	Entanglement entropy in FRW backgrounds	PHYSICS LETTERS B	2021	9
張鼎張	Lin, Shih-Kai; Chang, Ting-Chang; Lien, Chen-Hsin; Wu, Cheng-Hsien; Xu, You-Lin; Yang, Chih-Cheng; Huang, Wei-Chen; Wu, Pei-Yu; Zhang, Yong-Ci; Chou, Sheng-Yao; Huang, Hui-Chun; Wang, Kao-Yuan; Sze, Simon M.	Clarifying the switching layer transformation through analysis of an abnormal I-V curves with increasing set compliance current in oxide-based resistive random access memory	APPLIED PHYSICS EXPRESS	2021	9
張鼎張	Tsai, Yu-Lin; Chang, Ting-Chang; Tsao, Yu-Ching; Tai, Mao-Chou; Tu, Hong-Yi; Chien, Ya-Ting; Jin, Fu-Yuan; Zheng, Hao-Xuan; Lin, Yu-Shan; Ciou, Fong-Min; Lin, Yun-Hsuan; Wu, Pei-Yu; Huang, Jen-Wei	Improving Breakdown Voltage in AlGaIn/GaN Metal-Insulator-Semiconductor HEMTs Through Electric-Field Dispersion Layer Material Selection	IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELIABILITY	2021	9

張鼎張	Chen, Ao; He, Yuli; Ma, Guokun; Zhang, Ziqi; Ji, Jie; Wan, Jingshu; Zhang, Jianqiang; Wan, Houzhao; Tao, Li; Rao, Yiheng; Shen, Liangpin; Wang, Hanbin; Zhang, Jun; Wang, Yi; Chang, Ting-Chang; van Aken, Peter A.; Wang, Hao	Improved uniformity and threshold voltage in NbOx-ZrO2 selectors	APPLIED PHYSICS LETTERS	2021	8
黃信銘	S. M. Huang, C. H. Hsu, S. Y. Xu, B. Singh, M. C. Hsu, C. Su, A. Bansil and H. Lin	Aspects of symmetry and topology in the charge density wave phase of 1T - TiSe2	NEW JOURNAL OF PHYSICS	2021	8
張鼎張	Wu, Pei-Yu; Chen, Min-Chen; Chang, Ting-Chang; Zheng, Hao-Xuan; Jin, Fu-Yuan; Tan, Yung-Fang; Tu, Yu-Fa; Tsai, Xin-Ying; Huang, Jen-Wei; Chang, Kuo-Jen; Liu, Guan-Shian; Tsai, Tsung-Ming	Enhancing gate turn-off thyristor blocking characteristics by low temperature defect passivation technology	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	2021	8
張鼎張	Chen, Wen-Chung; Tan, Yung-Fang; Lin, Shih-Kai; Zhang, Yong-Ci; Chang, Kai-Chun; Lin, Yun-Hsuan; Yeh, Chien-Hung; Wu, Chung-Wei; Yeh, Yu-Hsuan; Wang, Kao-Yuan; Huang, Hui-Chun; Tsai, Tsung-Ming; Huang, Jen-Wei; Chang, Ting-Chang	Performance Improvement by Modifying Deposition Temperature in HfZrOx Ferroelectric Memory	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	8
闕郁倫	Saravanan, Lokesh; Patil, Ranjit A.; Gultom, Pangihutan; Kumar, Brajesh; Manikandan, Arumugam; Fu, Yen-Pei; Chueh, Yu-Lun; Cheng, Chia-Liang; Yeh, Wang-Chi; Ma, Yuan-Ron	Rutile-phase TiO2@carbon core-shell nanowires and their photoactivation in visible light region	CARBON	2021	8
闕郁倫	Niu, Wen-Jun; He, Jin-Zhong; Gu, Bing-Ni; Liu, Mao-Cheng; Chueh, Yu-Lun	Opportunities and Challenges in Precise Synthesis of Transition Metal Single-Atom Supported by 2D Materials as Catalysts toward Oxygen Reduction Reaction	ADVANCED FUNCTIONAL MATERIALS	2021	8

蔡民雄	Tang, Yu-Hui; Huang, Bao-Huei; Tsai, Min-Hsiung	The application of the nonlocal exchange potential matrix method to the study of ferromagnetic 3d transition metals	CHINESE JOURNAL OF PHYSICS	2021	8
郭建成	Huang, Yi-Cheng; Yen, Hung-Yu; Lan, Liang-Wei; Dutta, D.; Rahmah, A.; Lai, Yu-Ling; Hsu, Yao-Jane; Kuo, Chien-Cheng; Wang, Jeng-Han; Luo, Meng-Fan	Dissociation of water on atomic oxygen-covered Rh nanoclusters supported on graphene/Ru(0001)	JOURNAL OF CHEMICAL PHYSICS	2021	8
張鼎張	Chen, Dalei; Chen, Ao; Yu, Zhiying; Zhang, Ziqi; Tan, Qiuyang; Zeng, Junpeng; Ji, Jie; Pan, Xiyan; Ma, Guokun; Wan, Houzhao; Rao, Yiheng; Tao, Li; Peng, Xiaoniu; Duan, Jinxia; Wang, Hao; Chang, Ting-Chang	Forming-free, ultra-high on-state current, and self-compliance selector based on titanium-doped NbOx thin films	CERAMICS INTERNATIONAL	2021	8
黃信銘	Huang, Shin-Ming; Xu, Su-Yang; Singh, Bahadur; Hsu, Ming-Chien; Hsu, Chuang-Han; Su, Chenliang; Bansil, Arun; Lin, Hsin	Aspects of symmetry and topology in the charge density wave phase of 1T-TiSe2	NEW JOURNAL OF PHYSICS	2021	8
郭政育	Janssen, Michael ; Falcke, Heino ; Kadler, Matthias ; AND MORE; Kuo, Cheng-Yu ; Lauer, Tod R. ; Lee, Sang-Sung ; AND MORE	Event ? Horizon ? Telescope ? observations ? of ? the ? jet ? launching ? and ? collimation ? in ? Centaurus ? A	Nature Astronomy	2021	7
張鼎張	Yeh, Yu-Hsuan; Chang, Ting-Chang; Huang, Wei-Chen; Zheng, Hao-Xuan; Tsao, Yu-Ching; Ciou, Fong-Min; Lin, Yu-Shan; Tan, Yung-Fang; Sun, Li-Chuan; Zhou, Kuan-Ju; Chen, Kuan-Hsu; Huang, Jen-Wei	Obtaining impact ionization-induced hole current by electrical measurements in gallium nitride metal-insulator-semiconductor high electron mobility transistors	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2021	7
鄭橙懋	Su, Shu Hsuan; Chuang, Pei-Yu; Lee, Jung-Chuan; Chong, Cheong-Wei; Li, Ya Wen; Lin, Zong Mou; Chen, Yi-Chun; Cheng, Cheng-Maw; Huang, Jung-Chun-Andrew	Spin-to-Charge Conversion Manipulated by Fine-Tuning the Fermi Level of Topological Insulator (Bi1-xSbx)(2)Te-3	ACS APPLIED ELECTRONIC MATERIALS	2021	7

陳宗緯	Chen, Tsung-Wei; Hsu, Hsiu-Chuan	The time-averaged spin-Hall conductivity in two-dimensional spin-orbit coupled systems: the role of spin dynamics	NEW JOURNAL OF PHYSICS	2021	7
邱大維	Chen, Bo-Hung; Chiou, Dah-Wei	A unified view of curvature and torsion in metric-affine gauge theory of gravity through affine-vector bundles	CLASSICAL AND QUANTUM GRAVITY	2021	7
張鼎張	Hung, Yang-Hao; Chang, Ting-Chang; Zheng, Yu-Zhe; Su, Wan-Ching; Tu, Yu-Fa; Chen, Jian-Jie; Kuo, Chuan-Wei; Lu, I-Nien; Chen, Yu-An; Tsai, Chia-Hung; Ogier, Simon	Investigation of Thermal Behavior on High-Performance Organic TFTs Using Phase Separated Organic Semiconductors	IEEE ELECTRON DEVICE LETTERS	2021	6
張鼎張	Tai, Mao-Chou; Wang, Yu-Xuan; Chang, Ting-Chang; Huang, Hui-Chen; Lin, Chih-Chih; Huang, Bo-Shen; Chang, Han-Yu; Huang, Jen-Wei; Sze, Simon	Gate Dielectric Breakdown in A-InGaZnO Thin Film Transistors With Cu Electrodes	IEEE ELECTRON DEVICE LETTERS	2021	6
陳易馨	Chen, Yi-Hsuan; Chen, Yi-Hsin	Numerical study of large cross-phase modulation with stationary light pulses	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	2021	6
張鼎張	Wang, Min-Chuan; Yeh, Yu-Lin; Tsai, Ding-Guey; Li, Yu-Chen; Lin, Shih-Kai; Yang, Chih-Cheng; Chang, Ting-Chang	All-thin-film inorganic complementary electrochromic devices with the novel self-aligned lithium-rich ion conductor	SURFACES AND INTERFACES	2021	6
張鼎張	Chien, Yu-Chieh; Londono-Ramirez, Horacio; Kuo, Chuan-Wei; Tsao, Yu-Ching; Nag, Manoj; Chang, Ting-Chang; Ang, Kah-Wee	An Analytical Method for Parameter Extraction in Oxide Semiconductor Field-Effect Transistors	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	6
張鼎張	Zheng, Yu-Zhe; Wu, Chia-Chuan; Chen, Po-Hsun; Chang, Ting-Chang; Zhou, Kuan-Ju; Tu, Hong-Yi; Tu, Yu-Fa; Chen, Yu-An; Shih, Yu-Shan; Wang, Yu-Xuan; Sun, Pei-Jun; Hung, Yang-Hao; Tsai, Tsung-Ming	Impact of AC Stress in Low Temperature Polycrystalline Silicon Thin Film Transistors Produced With Different Excimer Laser Annealing Energies	IEEE ELECTRON DEVICE LETTERS	2021	6

闕郁倫	Zhang, Bin-Mei; Zhang, Yu-Shan; Liu, Mao-Cheng; Li, Jun; Lu, Chun; Gu, Bingni; Liu, Ming-Jin; Hu, Yu-Xia; Zhao, Kun; Liu, Wen-Wu; Niu, Wen-Jun; Kong, Ling-Bin; Chueh, Yu-Lun	Chemical welding of diamine molecules in graphene oxide nanosheets: Design of precisely controlled interlayer spacings with the fast Li ⁺ diffusion coefficient toward high-performance storage application	ELECTROCHIMICA ACTA	2021	6
陳永松	Soni, Varun; Chang, Ching-Wen; Xu, Xiaochuan; Wang, Chao; Yan, Hai; Agati, Michael; Tu, Li-Wei; Chen, Quark Yungsung; Tian, Huiping; Chen, Ray T.	Portable Automatic Microring Resonator System Using a Subwavelength Grating Metamaterial Waveguide for High-Sensitivity Real-Time Optical-Biosensing Applications	IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING	2021	6
杜立偉	Soni, Varun; Chang, Ching-Wen; Xu, Xiaochuan; Wang, Chao; Yan, Hai; Agati, Michael; Tu, Li-Wei; Chen, Quark Yungsung; Tian, Huiping; Chen, Ray T.	Portable Automatic Microring Resonator System Using a Subwavelength Grating Metamaterial Waveguide for High-Sensitivity Real-Time Optical-Biosensing Applications	IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING	2021	6
莊豐權	Hsu, Chia-Hsiu; Sreeparvathy, P. C.; Barman, Chanchal K.; Chuang, Feng-Chuan; Alam, Aftab	Coexistence of topological nontrivial and spin-gapless semiconducting behavior in MnPO ₄ : A composite quantum compound	PHYSICAL REVIEW B	2021	5
張鼎張	Chang, Kai-Chun; Chen, Po-Hsun; Chang, Ting-Chang; Yeh, Chien-Hung; Lin, Yun-Hsuan; Chang, Yen-Cheng; Chen, Wen-Chung; Tan, Yung-Fang; Wu, Chung-Wei; Sze, Simon	Analysis of increase in forward transconductance to determine the critical point of polarization at ferroelectric 1T1C memory	APPLIED PHYSICS LETTERS	2021	5
郭政育	Narayan, Ramesh; Palumbo, Daniel C. M.; AND MORE; Kuo, Cheng-Yu; Lauer, Tod R.; AND MORE	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole	ASTROPHYSICAL JOURNAL	2021	5

關郁倫	Su, Teng-Yu; Wang, Te-Hsien; Wong, Deniz P.; Wang, Yi-Chung; Huang, Angus; Sheng, Ying-Chun; Tang, Shin-Yi; Chou, Tsu-Chin; Chou, Ta-Lei; Jeng, Horng-Tay; Chen, Li-Chyong; Chen, Kuei-Hsien; Chueh, Yu-Lun	Thermally Strain-Induced Band Gap Opening on Platinum Diselenide-Layered Films: A Promising Two-Dimensional Material with Excellent Thermoelectric Performance	CHEMISTRY OF MATERIALS	2021	5
張鼎張	Wang, Yu-Xuan; Chang, Ting-Chang; Tai, Mao-Chou; Wu, Chia-Chuan; Tu, Yu-Fa; Chen, Jian-Jie; Huang, Wei-Chen; Shih, Yu-Shan; Chen, Yu-An; Huang, Jen-Wei; Sze, Simon	Investigation of Degradation Behavior During Illuminated Negative Bias Temperature Stress in P-Channel Low-Temperature Polycrystalline Silicon Thin-Film Transistors	IEEE ELECTRON DEVICE LETTERS	2021	5
郭政育	Kocherlakota, Prashant; Rezzolla, Luciano; AND MORE; Kuo, Cheng-Yu; Lauer, Tod R.; Lee, Sang-Sung; AND MORE	Constraints on black-hole charges with the 2017 EHT observations of M87*	PHYSICAL REVIEW D	2021	5
張鼎張	Zhao, Xiaohu; Chen, Ao; Ji, Jie; Wu, Dingjun; Gan, Yi; Wang, Cong; Ma, Guokun; Lin, Chih-Yang; Lin, Chun-Chu; Liu, Nengfan; Wan, Houzhao; Tao, Li; Wang, Baoyuan; Chang, Ting-Chang; Wang, Hao	Ultrahigh Uniformity and Stability in NbO _x -Based Selector for 3-D Memory by Using Ru Electrode	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	5
張鼎張	Chen, Ao; Zhang, Ziqi; Ma, Guokun; Liu, Nengfan; Lin, Chih-Yang; Chen, Wen-Chung; Chang, Ting-Chang; Wang, Hao	Comprehensive Regulation of the Threshold Oscillation for Neuromorphic Systems Based on Cryogenic Performance of NbO Device	IEEE ELECTRON DEVICE LETTERS	2021	5
張鼎張	Yang, Ling; Cheng, Long; Li, Yi; Li, Haoyang; Li, Jiancong; Chang, Ting-Chang; Miao, Xiangshui	Cryptographic Key Generation and In Situ Encryption in One-Transistor-One-Resistor Memristors for Hardware Security	ADVANCED ELECTRONIC MATERIALS	2021	5
關郁倫	Shih, Yu-Chuan; Lee, Ling; Liang, Kai-De; Manikandan, Arumugam; Liu, Wen-Wu; Chen, Yu-Ze; Chang, Mu-Tung; Wang, Zhiming M.; Chueh, Yu-Lun	Smart Design of Resistive Switching Memory by an In Situ Current-Induced Oxidization Process on a Single Crystalline Metallic Nanowire	ADVANCED ELECTRONIC MATERIALS	2021	5

張鼎張	Kuo, Chuan-Wei; Chang, Ting-Chang; Chien, Yu-Chieh; Tsai, Yu-Lin; Tu, Hong-Yi; Tsao, Yu-Ching; Chien, Ya-Ting; Chen, Hong-Chih; Chen, Jian-Jie; Tsai, Tsung-Ming; Sze, Simon M.	On the Optimization of Performance and Reliability in a-InGaZnO Thin-Film Transistors by Versatile Light Shielding Design	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	4
張鼎張	Wu, Chung-Wei; Lin, Chun-Chu; Chen, Po-Hsun; Chang, Ting-Chang; Zhou, Kuan-Ju; Chen, Wen-Chung; Tan, Yung-Fang; Yeh, Yu-Hsuan; Chou, Sheng-Yao; Huang, Hui-Chun; Tsai, Tsung-Ming; Sze, Simon M.	Realizing forming-free characteristic by doping Ag into HfO ₂ -based RRAM	APPLIED PHYSICS EXPRESS	2021	4
郭政育	EHT MWL Science Working Group; AND MORE	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign	ASTROPHYSICAL JOURNAL LETTERS	2021	4
莊豐權	Hlevyack, Joseph A.; Feng, Liang-Ying; Lin, Meng-Kai; Villaos, Rovi Angelo B.; Liu, Ro-Ya; Chen, Peng; Li, Yao; Mo, Sung-Kwan; Chuang, Feng-Chuan; Chiang, T. -C.	Dimensional crossover and band topology evolution in ultrathin semimetallic NiTe ₂ films	NPJ 2D MATERIALS AND APPLICATIONS	2021	4
張鼎張	Tai, Ya-Hsiang; Yeh, Shan; Chen, Wei-Lin; Chang, Ting-Chang	The time response for the low-temperature poly-silicon thin-film transistors to x-ray irradiation pulse	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	2021	4
林德鴻	Lin, De-Hone	The Magnetic Hooke-Newton Transmutation in Momentum Space	SYMMETRY-BASEL	2021	4
李定國	Liu, Yi-Hsuan; Wu, Huan-Kuang; Lee, Ting-Kuo	Enhancement of maximum superconducting temperature by applying pressure and reducing the charge transfer gap	CHINESE JOURNAL OF PHYSICS	2021	4

黃信銘	Cruzado, Harvey N.; Dizon, John Symon C.; Macam, Genevieve M.; Villaos, Rovi Angelo B.; Thi My Duyen Huynh; Feng, Liang-Ying; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Band Engineering and Van Hove Singularity on HfX ₂ Thin Films (X = S, Se, or Te)	ACS APPLIED ELECTRONIC MATERIALS	2021	3
黃信銘	Macam, Genevieve; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Tuning topological phases and electronic properties of monolayer ternary transition metal chalcogenides (ABX ₄), A/B = Zr, Hf, or Ti; X = S, Se, or Te)	APPLIED PHYSICS LETTERS	2021	3
莊豐權	Cruzado, Harvey N.; Dizon, John Symon C.; Macam, Genevieve M.; Villaos, Rovi Angelo B.; Thi My Duyen Huynh; Feng, Liang-Ying; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Band Engineering and Van Hove Singularity on HfX ₂ Thin Films (X = S, Se, or Te)	ACS APPLIED ELECTRONIC MATERIALS	2021	3
莊豐權	Macam, Genevieve; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Tuning topological phases and electronic properties of monolayer ternary transition metal chalcogenides (ABX ₄), A/B = Zr, Hf, or Ti; X = S, Se, or Te)	APPLIED PHYSICS LETTERS	2021	3
郭啟東	Chen, Ting-Hui; Huang, Shuan-Yu; Huang, Syuan-Yi; Lin, Jia-De; Huang, Bing-Yau; Kuo, Chie-Tong	Improvement of the Centrifugal Force in Gravity Driven Method for the Fabrication of Highly Ordered and Submillimeter-Thick Colloidal Crystal	POLYMERS	2021	3
郭政育	Akiyama, Kazunori; Algaba, Juan Carlos; AND MORE; Kuo, Cheng-Yu; Lauer, Tod R.; Lee, Sang-Sung; AND MORE	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon	ASTROPHYSICAL JOURNAL LETTERS	2021	3
張鼎張	Lin, Yu-Shan; Chen, Li-Hui; Chang, Ting-Chang; Liu, Kuan-Ju; Lin, Chien-Yu; Ciou, Fong-Min	The Relationship Between Resistive Protective Oxide (RPO) and Hot Carrier Stress (HCS) Degradation in n-Channel LD SOI MOSFET	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	3

黃信銘	Yang, Hung-Yu; Singh, Bahadur; Gaudet, Jonathan; Lu, Baozhu; Huang, Cheng-Yi; Chiu, Wei-Chi; Huang, Shin-Ming; AND MORE	Noncollinear ferromagnetic Weyl semimetal with anisotropic anomalous Hall effect	PHYSICAL REVIEW B	2021	3
莊豐權	Cao, Jiangming; Huang, Zhi-Quan; Macam, Genevieve; Gao, Yifan; Nulakani, Naga Venkateswara Rao; Ge, Xun; Ye, Xiang; Chuang, Feng-Chuan; Huang, Li	Prediction of massless Dirac fermions in a carbon nitride covalent network	APPLIED PHYSICS LETTERS	2021	3
楊弘敦	Adnani, Moein; Gooch, Melissa; Deng, Liangzi; AND MORE; Lai, Yen-Chung; Yang, Hung-Duen; Pellegrin, Eric; Chu, Ching-Wu	Magnetocapacitance effect and magnetoelectric coupling in type-II multiferroic HoFeWO ₆	PHYSICAL REVIEW B	2021	3
張鼎張	Lin, Shih-Kai; Wu, Cheng-Hsien; Chang, Ting-Chang; Lien, Chen-Hsin; Yang, Chih-Cheng; Chen, Wen-Chung; Lin, Chun-Chu; Huang, Wei-Chen; Tan, Yung-Fang; Wu, Pei-Yu; Zhang, Yong-Ci; Sun, Li-Chuan; Sze, Simon M.	Improving Performance by Inserting an Indium Oxide Layer as an Oxygen Ion Storage Layer in HO ₂ -Based Resistive Random Access Memory	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	3
黃信銘	Wu, H. C.; Chung, Y. C.; Yen, T. W.; Chen, H. J.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Huang, S. M.; Wang, Y-Y; Lin, J-Y; Lee, J. J.; Lai, Y. C.; Chen, C. L.; Lee, J. F.; Chou, T. L.; Lai, Y-C; Chu, M-W; Chou, Mitch M. C.; Yang, H. D.	Evidence of a structural phase transition in the triangular-lattice compound CuIr ₂ Te ₄	PHYSICAL REVIEW B	2021	3
楊弘敦	Wu, H. C.; Chung, Y. C.; Yen, T. W.; Chen, H. J.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Huang, S. M.; Wang, Y-Y; Lin, J-Y; Lee, J. J.; Lai, Y. C.; Chen, C. L.; Lee, J. F.; Chou, T. L.; Lai, Y-C; Chu, M-W; Chou, Mitch M. C.; Yang, H. D.	Evidence of a structural phase transition in the triangular-lattice compound CuIr ₂ Te ₄	PHYSICAL REVIEW B	2021	3

關郁倫	Lee, Ling; Shih, Yu-Chuan; Yang, Tzu-Yi; Shen, Ying-Chun; Hsu, Yu-Chieh; Chiang, Chun-Hsiu; Wang, Yi-Chung; Lin, Bi-Hsuan; Li, Xioa-Yun; Tseng, Shao-Chin; Tang, Mau-Tsu; Cheng, Faliang; Wang, Zhiming M.; Chueh, Yu-Lun	In Situ Current-Accelerated Phase Cycling with Metallic and Semiconducting Switching in Copper Nanobelts at Room Temperature	ACS NANO	2021	3
楊弘敦	Lee, Chi-Hung; Batsaikhan, Erdembayalag; Ma, Ma-Hsuan; Li, Wen-Hsien; Wang, Chin-Wei; Wu, Chun-Min; Yang, Hung-Duen; Lynn, Jeffrey W.; Berger, Helmuth	Charge transfer enhanced magnetic correlations in type-II multiferroic Co ₃ TeO ₆	JOURNAL OF THE CHINESE CHEMICAL SOCIETY	2021	3
郭政育	Goddi, Ciriaco; Marti-Vidal, Ivan; Messias, Hugo; AND MORE; Kuo, Cheng-Yu; Lauer, Tod R.; Lee, Sang-Sung; Levis, Aviad; AND MORE	Polarimetric Properties of Event Horizon Telescope Targets from ALMA	ASTROPHYSICAL JOURNAL LETTERS	2021	3
郭政育	Akiyama, Kazunori; Algaba, Juan Carlos; Alberdi, Antxon; AND MORE; Kuo, Cheng-Yu; Lauer, Tod R.; Lee, Sang-Sung; Levis, Aviad; Li, Yan-Rong; AND MORE	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring	ASTROPHYSICAL JOURNAL LETTERS	2021	3
張鼎張	Yeh, Chien-Hung; Chang, Kai-Chun; Lin, Yun-Hsuan; Chang, Ting-Chang; Chang, Yen-Cheng; Chen, Wen-Chung; Jin, Fu-Yuan; Ciou, Fong-Min; Lin, Yu-Shan; Hung, Wei-Chun; Huang, Jen-Wei; Tsai, Tsung-Ming; Sze, Simon M.	Analysis of Edge Effect Occurring in Non-Volatile Ferroelectric Transistors	IEEE ELECTRON DEVICE LETTERS	2021	3

張鼎張	Jin, Fu-Yuan; Ciou, Fong-Min; Hung, Wei-Chun; Huang, Jen-Wei; Lin, Chien-Yu; Lin, Yu-Shan; Chang, Kai-Chun; Chang, Yen-Cheng; Lin, Yun-Hsuan; Kuo, Ting-Tzu; Chen, Kuan-Hsu; Hung, Wei-Chieh; Yeh, Chien-Hung; Chang, Chin-Han; Chang, Ting-Chang	Reliability enhancement in dipole-doped metal oxide semiconductor capacitor induced by low-temperature and high-pressure nitridation	APPLIED PHYSICS EXPRESS	2021	3
鄭橙懋	Chang, Y. S.; Chen, C. Y.; Ho, C. J.; Cheng, C. M.; Chen, H. R.; Fu, T. Y.; Huang, Y. T.; Ke, S. W.; Du, H. Y.; Lee, K. Y.; Chao, L. C.; Chen, L. C.; Chen, K. H.; Chu, Y. W.; Chen, R. S.	Surface electron accumulation and enhanced hydrogen evolution reaction in MoSe ₂ basal planes	NANO ENERGY	2021	2
周雄	Samoshkina, Yulia E.; Edelman, Irina S.; Chou, Hsiung; Lin, Hsien-Chi; Dwivedi, Gopeshwar D.; Petrov, Dmitry A.; Zharkov, Sergey M.; Zeer, Galina M.; Molokeyev, Maxim S.	Structure and physical properties of hydrogenated (Co plus Al)-doped ZnO films: Comparative study with co-doped ZnO films	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2021	2
邱大維	Chen, Bo-Hung; Chiou, Dah-Wei	An elementary proof and detailed investigation of the bulk-boundary correspondence in the generic two-band model of Chern insulators	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	2021	2
黃旭明	Huang, Shiu-Ming; Hung, Jai-Lung; Chou, Mitch; Chen, Chi-Yang; Liu, Fang-Chen; Chen, Ruei-San	The Highly Uniform Photoresponsivity from Visible to Near IR Light in Sb ₂ Te ₃ Flakes	SENSORS	2021	2
張鼎張	Wu, Pei-Yu; Chang, Ting-Chang; Chen, Min-Chen; Yang, Chih-Cheng; Zheng, Hao-Xuan; Chen, Po-Hsun; Chen, Wen-Chung; Zhang, Yong-Ci; Lin, Shih-Kai; Chen, Jian-Jie; Huang, Hui-Chun; Tsai, Tsung-Ming; Sze, Simon M.	Improvement of Hafnium Oxide Resistive Memory Performance Through Low-Temperature Supercritical Oxidation Treatments	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	2

陳易馨	Hsu, Chia-Yu; Wang, Yu-Sheng; Chen, Jia-Mou; Huang, Fu-Chen; Ke, Yi-Ting; Huang, Emily Kay; Hung, Weilun; Chao, Kai-Lin; Hsiao, Shih-Si; Chen, Yi-Hsin; Chuu, Chih-Sung; Chen, Ying-Cheng; Chen, Yong-Fan; Yu, Ite A.	Generation of sub-MHz and spectrally-bright biphotons from hot atomic vapors with a phase mismatch-free scheme	OPTICS EXPRESS	2021	2
莊豐權	Yamagami, K.; Fujisawa, Y.; Driesen, B.; Hsu, C. H.; Kawaguchi, K.; Tanaka, H.; Kondo, T.; Zhang, Y.; Wadati, H.; Araki, K.; Takeda, T.; Takeda, Y.; Muro, T.; Chuang, F. C.; Niimi, Y.; Kuroda, K.; Kobayashi, M.; Okada, Y.	Itinerant ferromagnetism mediated by giant spin polarization of the metallic ligand band in the van der Waals magnet Fe ₅ GeTe ₂	PHYSICAL REVIEW B	2021	2
張鼎張	Lin, Dong; Su, Wan-Ching; Chang, Ting-Chang; Chen, Hong-Chih; Tu, Yu-Fa; Zhou, Kuan-Ju; Hung, Yang-Hao; Yang, Jianwen; Lu, I-Nien; Tsai, Tsung-Ming; Zhang, Qun	Degradation Behavior of Etch-Stopper-Layer Structured a-InGaZnO Thin-Film Transistors Under Hot-Carrier Stress and Illumination	IEEE TRANSACTIONS ON ELECTRON DEVICES	2021	2
黃信銘	Villaos, Rovi Angelo B.; Cruzado, Harvey N.; Dizon, John Symon C.; Maghirang, Aniceto B., III; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Evolution of the Electronic Properties of ZrX ₂ (X = S, Se, or Te) Thin Films under Varying Thickness	JOURNAL OF PHYSICAL CHEMISTRY C	2021	1
盧怡穎	Lu, Yi-Ying; Peng, Yu-Ting; Huang, Yan-Ting; Chen, Jia-Ni; Jhou, Jie; Lan, Liang-Wei; Jian, Shi-Hao; Kuo, Chien-Cheng; Hsieh, Shang-Hsien; Chen, Chia-Hao; Sankar, Raman; Chou, Fang-Cheng	Engineering an Indium Selenide van der Waals Interface for Multilevel Charge Storage	ACS APPLIED MATERIALS & INTERFACES	2021	1
陳易馨	? Kao-Fang Chang, Ta-Pang Wang, Chun-Yi Chen, Yi-Hsin Chen, Yu-Sheng Wang, Yong-Fan Chen, Ying-Cheng Chen, and Ite	? Low-loss high-fidelity frequency beam splitter with tunable split ratio based on electromagnetically induced transparency	PHYSICAL REVIEW RESEARCH	2021	1

張鼎張	Tai, Mao-Chou; Tsao, Yu-Ching; Wang, Yu-Xuan; Lin, Chih-Chih; Tsai, Yu-Lin; Tu, Hong-Yi; Huang, Bo-Shen; Chang, Ting-Chang	Dynamic switching-induced back-carrier-injection in a-InGaZnO thin film transistors	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2021	1
張鼎張	Wang, Xiao-Yuan; Zhou, Peng-Fei; Eshraghian, Jason K.; Lin, Chih-Yang; Iu, Herbert Ho-Ching; Chang, Ting-Chang; Kang, Sung-Mo	High-Density Memristor-CMOS Ternary Logic Family	IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS	2021	1
黃信銘	Hsu, Ming-Chien; Lin, Hsin; Hasan, M. Zahid; Huang, Shin-Ming	Topologically distinct Weyl fermion pairs	SCIENTIFIC REPORTS	2021	1
莊豐權	Chen, Guan-Yu; Hsu, Chia-Hsiu; Liu, Bo-You; Chang, Li-Wei; Lin, Deng-Sung; Chuang, Feng-Chuan; Hsu, Pin-Jui	Quantum well electronic states in spatially decoupled 2D Pb nanoislands on Nb-doped SrTiO ₃ (001)	APPLIED SURFACE SCIENCE	2021	1
闕郁倫	Zhang, Yu-Shan; Zhang, Bin-Mei; Hu, Yu-Xia; Li, Jun; Lu, Chun; Liu, Ming-Jin; Wang, Kuangye; Kong, Ling-Bin; Zhao, Chen-Zi; Niu, Wen-Jun; Liu, Wen-Wu; Zhao, Kun; Liu, Mao-Cheng; Chueh, Yu-Lun	Diamine molecules double lock-link structured graphene oxide sheets for high-performance sodium ions storage	ENERGY STORAGE MATERIALS	2021	1
莊豐權	Villaos, Rovi Angelo B.; Cruzado, Harvey N.; Dizon, John Symon C.; Maghirang, Aniceto B., III; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Huang, Shin-Ming; Lin, Hsin; Chuang, Feng-Chuan	Evolution of the Electronic Properties of ZrX ₂ (X = S, Se, or Te) Thin Films under Varying Thickness	JOURNAL OF PHYSICAL CHEMISTRY C	2021	1
郭建成	Lu, Yi-Ying; Peng, Yu-Ting; Huang, Yan-Ting; Chen, Jia-Ni; Jhou, Jie; Lan, Liang-Wei; Jian, Shi-Hao; Kuo, Chien-Cheng; Hsieh, Shang-Hsien; Chen, Chia-Hao; Sankar, Raman; Chou, Fang-Cheng	Engineering an Indium Selenide van der Waals Interface for Multilevel Charge Storage	ACS APPLIED MATERIALS & INTERFACES	2021	1