

教師姓名	作者群	論文名稱	期刊名稱	卷	期	頁	發表年	發表月
楊弘敦	Pal, Arkadeb; Anand, Khyati; Patel, Neha; Das, Amitabh; Ghosh, Surajit; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Singh, R. K.; Yang, H. D.; Ghosh, A. K.; Chatterjee, Sandip	Interplay of spin, phonon, and lattice degrees in a hole- doped double perovskite: Observation of spin-phonon coupling and magnetostriction effect	JOURNAL OF APPLIED PHYSICS	132	22	223906 (15 pp)	2022	12
蔡民雄	Tang, Yu-Hui; Huang, Tai-Sheng; Tsai, Min-Hsiung	A first-principles study of magnetic switching and hysteresis effect in the ferromagnetic Fe metal	CHINESE JOURNAL OF PHYSICS	80		183-189	2022	12
黃志權	Verzola, Ina Marie R.; Villaos, Rovi Angelo B.; Purwitasari, Winda; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chang, Guoqing; Lin, Hsin; Chuang, Feng-Chuan	Prediction of van Hove singularities, excellent thermoelectric performance, and non-trivial topology in monolayer rhenium dichalcogenides	MATERIALS TODAY COMMUNICA TIONS	33		104468	2022	12
琪羅斌	Verzola, Ina Marie R.; Villaos, Rovi Angelo B.; Purwitasari, Winda; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chang, Guoqing; Lin, Hsin; Chuang, Feng-Chuan	Prediction of van Hove singularities, excellent thermoelectric performance, and non-trivial topology in monolayer rhenium dichalcogenides	MATERIALS TODAY COMMUNICA TIONS	33		104468	2022	12
張鼎張	Wang, Yu-Xuan; Tai, Mao-Chou; Chang, Ting- Chang; Wu, Chia- Chuan; Zheng, Yu- Zhe; Tu, Yu-Fa; Zhou, Kuan-Ju; Shih, Yu-Shan; Chen, Yu-An; Huang, Jen-Wei;	A Stacked p-Type Low-Temperature Polycrystalline Silicon Thin-Film Transistor for Future Display Applications	ADVANCED MATERIALS TECHNOLOGI ES	7	12	2E+06	2022	12

黃信銘	Pal, Arkadeb; Anand, Khyati; Patel, Neha; Das, Amitabh; Ghosh, Surajit; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Singh, R. K.; Yang, H. D.; Ghosh, A. K.; Chatterjee, Sandip	Interplay of spin, phonon, and lattice degrees in a hole- doped double perovskite: Observation of spin-phonon coupling and magnetostriction effect	JOURNAL OF APPLIED PHYSICS	132	22	223906 (15 pp)	2022	12
顏聰文	Pal, Arkadeb; Anand, Khyati; Patel, Neha; Das, Amitabh; Ghosh, Surajit; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Singh, R. K.; Yang, H. D.; Ghosh, A. K.; Chatterjee, Sandip	Interplay of spin, phonon, and lattice degrees in a hole- doped double perovskite: Observation of spin-phonon coupling and magnetostriction effect	JOURNAL OF APPLIED PHYSICS	132	22	223906 (15 pp)	2022	12
阿卡德	Pal, Arkadeb; Anand, Khyati; Patel, Neha; Das, Amitabh; Ghosh, Surajit; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Singh, R. K.; Yang, H. D.; Ghosh, A. K.; Chatterjee, Sandip	Interplay of spin, phonon, and lattice degrees in a hole- doped double perovskite: Observation of spin-phonon coupling and magnetostriction effect	JOURNAL OF APPLIED PHYSICS	132	22	223906 (15 pp)	2022	12
楊弘敦	Prashanth, C. H.; Reddy, Indukuru Ramesh; Tarafder, Kartick; Kakarla, D. Chandrasekhar; Yang, H. D.; Adyam, Venimadhav; Jyothinagaram, Krishnamurthy	Magnetic complexity, magnetodielectric effect and DFT calculations on correlation driven Gd ₂ CoMnO ₆ insulator	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	563		169880	2022	12

錢德勒	Prashanth, C. H.; Reddy, Indukuru Ramesh; Tarafder, Kartick; Kakarla, D. Chandrasekhar; Yang, H. D.; Adyam, Venimadhav; Jyothinagaram, Krishnamurthy	Magnetic complexity, magnetodielectric effect and DFT calculations on correlation driven Gd ₂ CoMnO ₆ insulator	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	563		169880	2022	12
張鼎張	Wang, Yu-Bo; Chang, Ting-Chang; Lin, Shih-Kai; Wu, Pei-Yu; Zhang, Yong-Ci; Tan, Yung-Fang; Chen, Wen-Chung; Wu, Chung-Wei; Chou, Sheng-Yao; Zhou, Kuan-Ju; Sun, Li-Chuan; Tsai, Xin-Ying; Sze, Simon M.	Forming-Free HfO ₂ -Based Resistive Random Access Memory by X-Ray Irradiation	IEEE TRANSACTIONS ON ELECTRON DEVICES	69	12	6705-6709	2022	12
張鼎張	Kuo, Chuan-Wei; Chang, Ting-Chang; Chen, Jian-Jie; Zhou, Kuan-Ju; Tsai, Tsung-Ming	Abnormal Subthreshold Swing Decrease in a-InGaZnO Thin-Film Transistor After Self-Heating Stress	IEEE TRANSACTIONS ON ELECTRON DEVICES	69	12	6789-6793	2022	12
狄米契	Giantsos, Vangelis; Giataganas, Dimitrios	Holographic nonlocal rotating observables and their renormalization	PHYSICAL REVIEW D	106	12	126012(1-16)	2022	12
陳易馨	Su, Hsuan-Jui; Liou, Jia-You; Lin, I-Chun; Chen, Yi-Hsin	Optical pumping effects on high-contrast Rydberg electromagnetically induced transparency	JOURNAL OF APPLIED PHYSICS	132	24	244401	2022	12

莊豐權	Verzola, Ina Marie R.; Villaos, Rovi Angelo B.; Purwitasari, Winda; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chang, Guoqing; Lin, Hsin; Chuang, Feng-Chuan	Prediction of van Hove singularities, excellent thermoelectric performance, and non-trivial topology in monolayer rhenium dichalcogenides	MATERIALS TODAY COMMUNICATIONS	33		104468	2022	12
蘇萬生	Liu, Bin; Su, Wan-Sheng; Wu, Bi-Ru	Influence of Group-IVA Doping on Electronic and Optical Properties of ZnS Monolayer: A First-Principles Study	NANOMATERIALS	12	21	3898	2022	11
莊豐權	Maghirang III, Aniceto B.; Villaos, Rovi Angelo B.; Perez, Marku Nyevel R.; Feng, Liang-Ying; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Large Gap Topological Insulating Phase and Anisotropic Rashba and Chiral Spin Textures in Monolayer Zintl A ₂ MX ₂	ACS APPLIED ELECTRONIC MATERIALS	4	11	5308-5316	2022	11
黃志權	Maghirang III, Aniceto B.; Villaos, Rovi Angelo B.; Perez, Marku Nyevel R.; Feng, Liang-Ying; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Large Gap Topological Insulating Phase and Anisotropic Rashba and Chiral Spin Textures in Monolayer Zintl A ₂ MX ₂	ACS APPLIED ELECTRONIC MATERIALS	4	11	5308-5316	2022	11
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顏聰文	Lu, Yi-Ying; Yu, Hsiao-Ching; Wang, You-Xin; Hung, Chih-Keng; Chen, You-Ren; Jhou, Jie; Yen, Peter Tsung-Wen; Hsu, Jui-Hung; Sankar, Raman	Optical determination of layered-materials InSe thickness via RGB contrast method and regression analysis	NANOTECHNOLOGY	33	48	485702	2022	11
盧怡穎	Lu, Yi-Ying; Yang, Yu-Lun; Chuang, Pin-Yi; Jhou, Jie; Hsu, Jui-Hung; Hsieh, Shang-Hsien; Chen, Chia-Hao	Operando photoelectron spectroscopy analysis of graphene field-effect transistors	NANOTECHNOLOGY	33	47	475702	2022	11
盧怡穎	Lu, Yi-Ying; Yu, Hsiao-Ching; Wang, You-Xin; Hung, Chih-Keng; Chen, You-Ren; Jhou, Jie; Yen, Peter Tsung-Wen; Hsu, Jui-Hung; Sankar, Raman	Optical determination of layered-materials InSe thickness via RGB contrast method and regression analysis	NANOTECHNOLOGY	33	48	485702	2022	11
黃旭明	Huang, Shiu-Ming; Wang, Pin-Cing; Hung, Kuo-Yi; Cheng, Fu-En; Li, Chang-Yu; Chou, Mitch	On the Paramagnetic-Like Susceptibility Peaks at Zero Magnetic Field in WSe ₂ -xTex Single Crystals	NANOSCALE RESEARCH LETTERS	17	1	107	2022	11
林德鴻	Lin, De-Hone	The 2+1-Dimensional Special Relativity	SYMMETRY-BASEL	14	11	2403-2425	2022	11
張鼎張	Hsieh, Chiao-Hsuan; Tseng, Shih-Ting; Hung, Yu-Chiang; Chang, Ting-Chang; Hu, Wen-Long; Lin, Chien-Hung	Effect of moxibustion on meridian in a warm needling model: A protocol for a prospective observational study	MEDICINE	101	47		2022	11

楊弘敦	Pal, Arkadeb; Anand, Khyati; Kumar, Dheeraj; Joshi, Amish G.; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Yang, H. D.; Ghosh, A. K.; Chatterjee, Sandip	Observation of structural change-driven Griffiths to non-Griffiths-like phase transformation in $\text{Pr}_{2-x}\text{Sr}_x\text{CoFeO}_6$ ($x=0$ to 1)	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	562		169764 (14 pp)	2022	11
黃信銘	Pal, Arkadeb; Anand, Khyati; Kumar, Dheeraj; Joshi, Amish G.; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Yang, H. D.; Ghosh, A. K.; Chatterjee, Sandip	Observation of structural change-driven Griffiths to non-Griffiths-like phase transformation in $\text{Pr}_{2-x}\text{Sr}_x\text{CoFeO}_6$ ($x=0$ to 1)	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	562		169764 (14 pp)	2022	11
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范越芳	Malik, Maria; Iqbal, Muhammad Aamir; Iqbal, Yasir; Malik, Mariam; Bakhsh, Sunila; Irfan, Shaheen; Ahmad, Raice; Pham, Phuong V.	Biosynthesis of silver nanoparticles for biomedical applications: A mini review	INORGANIC CHEMISTRY COMMUNICATIONS	145		109980	2022	11

周雄	Kumawat, S. M.; Dwivedi, G. D.; Chien, Y. H.; Su, P. F.; Huang, Z. H.; Chou, H.	Understanding the structural behaviors and abrupt enhancement in magnetic ordering temperature of Fe-	MATERIALS RESEARCH BULLETIN	154	154	11928	2022	10
闕郁倫	Zhao, Kun; Zhang, Hui; Meng, Jingke; Chung, Chia-Chen; Gu, Bing-Ni; Liu, Ming-Jin; Zhang, Ding; Zhong, Ming; Liu, Maocheng; Liu, Na; Lin, Chun-Jung; Meng, Cheng; Chueh, Yu-Lun	Design of Self-Powered Sensors with Excellent Thermal and UV-Light Detections by 0.94(Bi0.5Na0.5)TiO3-0.06Ba(Zr0.25Ti0.75)O-3	ADVANCED FUNCTIONAL MATERIALS	32	40		2022	10
孫士傑	Sun, Shih-Jye	Polaron induced ferromagnetism in ZnO	CHINESE JOURNAL OF PHYSICS	79		202-210	2022	10
楊弘敦	Kumawat, S. M.; Dwivedi, G. D.; Yen, T. W.; Kakarla, D. Chandrasekhar; Tiwari, A.; Sun, S. J.; Yang, H. D.; Chou, H.	Possible half-metallicity and suppressed double-exchange interaction in spinel Mn2.4Ni0.6O4: A Ni-substitution	JOURNAL OF ALLOYS AND COMPOUNDS	919		165777	2022	10
周雄	Kumawat, S. M.; Dwivedi, G. D.; Yen, T. W.; Kakarla, D. Chandrasekhar; Tiwari, A.; Sun, S. J.; Yang, H. D.; Chou, H.	Possible half-metallicity and suppressed double-exchange interaction in spinel Mn2.4Ni0.6O4: A Ni-substitution	JOURNAL OF ALLOYS AND COMPOUNDS	919		165777	2022	10
顏聰文	Kumawat, S. M.; Dwivedi, G. D.; Yen, T. W.; Kakarla, D. Chandrasekhar; Tiwari, A.; Sun, S. J.; Yang, H. D.; Chou, H.	Possible half-metallicity and suppressed double-exchange interaction in spinel Mn2.4Ni0.6O4: A Ni-substitution	JOURNAL OF ALLOYS AND COMPOUNDS	919		165777	2022	10

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郭培學	Kumawat, S. M.; Dwivedi, G. D.; Chien, Y. H.; Su, P. F.; Huang, Z. H.; Chou, H.	Understanding the structural behaviors and abrupt enhancement in magnetic ordering temperature of Fe-	MATERIALS RESEARCH BULLETIN	154	154	11928	2022	10
孫士傑	Kumawat, S. M.; Dwivedi, G. D.; Yen, T. W.; Kakarla, D. Chandrasekhar; Tiwari, A.; Sun, S. J.; Yang, H. D.; Chou, H.	Possible half-metallicity and suppressed double-exchange interaction in spinel Mn _{2.4} Ni _{0.6} O ₄ : A Ni-substitution	JOURNAL OF ALLOYS AND COMPOUNDS	919		165777	2022	10
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阿卡德	Anand, Khyati; Pal, Arkadeb; Joshi, Amish G.; Pal, Prabir; Singh, Rahul; Yen, Peter Tsung-Wen; Huang, S. M.; Alam, Md; Kumari, Seema; Sathe, Vasant; Chakravarty, Sujoy; Mohan, Anita; Chatterjee, Sandip	Giant exchange bias in antiferromagnetic Pr ₂ CoFe _{0.5} Mn _{0.5} O ₆ : a structural and magnetic properties study	JOURNAL OF PHYSICS D-APPLIED PHYSICS	55	36	365004 (16pp)	2022	9

郭建成	Chang, Aldrin G.; Lan, Liang-Wei; Chan, Yao-Jui; Kuo, Chia-Nung; Chen, Ting; Huang, Chih-Heng; Chuang, Tzu-Hung; Wei, Der-Hsin; Lue, Chin-Shan; Kuo, Chien-Cheng	Trigonal distortion in zigzag- antiferromagnet iron phosphorus trisulfide	PHYSICAL REVIEW B	106	12	125412	2022	9
楊弘敦	Pal, Arkadeb; Huang, C. H.; Yen, T. W.; Lee, P. H.; Chang, Y. H.; Yeh, C. H.; Kuo, T. W.; Tiwari, Ajay; Kakarla, D. Chandrasekhar; Huang, S. M.; Chou, M. C.; Kunwar, H. S.;, Rana, S.; Sathe, V. G.; Chen, B. H.;, Chuang, Y. C.; Yang, H. D.	Spin-induced strongly correlated magnetodielectricit y, magnetostriction effect, and spin- phonon coupling in helical magnet Fe- 3(PO4)O-3	PHYSICAL REVIEW B	106	9	94404	2022	9
黃信銘	Pal, Arkadeb; Huang, C. H.; Yen, T. W.; Lee, P. H.; Chang, Y. H.; Yeh, C. H.; Kuo, T. W.; Tiwari, Ajay; Kakarla, D. Chandrasekhar; Huang, S. M.; Chou, M. C.; Kunwar, H. S.;, Rana, S.; Sathe, V. G.; Chen, B. H.;, Chuang, Y. C.; Yang, H. D.	Spin-induced strongly correlated magnetodielectricit y, magnetostriction effect, and spin- phonon coupling in helical magnet Fe- 3(PO4)O-3	PHYSICAL REVIEW B	106	9	94404	2022	9

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黃信銘	Gupta, Prince K.; Anand, Khyati; Alam, Mohd; Ghosh, Surajit; Kumari, Seema; Pal, Arkadeb; Singh, Mahima; Shukla, K. K.; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Ghosh, A. K.; Chatterjee, Sandip	Reentrant double glassy states and simultaneous presence of short- and long-range ordering in metamagnetic Co- doped Bi0.5La0.5Fe0.5Mn0.5O3 multiferroic	SOLID STATE SCIENCES	131		106930 (9 pp)	2022	9
張鼎張	Lin, Chien-Hung; Tan, Yung-Fang; Tseng, Shih-Ting; Chen, Wen-Chung; Kuo, Chuan-Wei; Wu, Chia-Chuan; Tsai, Tsung-Ming; Hu, Wen-Long; Chang, Ting- Chang; Hung, Yu-	Meridian study on the response current affected by acupuncture needling direction	MEDICINE	101	35	e30338	2022	9
顏聰文	Gupta, Prince K.; Anand, Khyati; Alam, Mohd; Ghosh, Surajit; Kumari, Seema; Pal, Arkadeb; Singh, Mahima; Shukla, K. K.; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Ghosh, A. K.; Chatterjee, Sandip	Reentrant double glassy states and simultaneous presence of short- and long-range ordering in metamagnetic Co- doped Bi0.5La0.5Fe0.5Mn0.5O3 multiferroic	SOLID STATE SCIENCES	131		106930 (9 pp)	2022	9
楊弘敦	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Hsieh, M. -j.; Lin, J. -y; Wang, C. W.; Tseng, L. K.; Lu, C. E.; Pal, Arkadeb; Kuo, T. W.; Chou, Mitch M. C.; Yang, H. D.	Observation of magnetic field- induced second magnetic ordering and peculiar ferroelectric polarization in L- type ferrimagnetic Fe-2(MoO4)(3)	PHYSICAL REVIEW MATERIALS	6	9	94412	2022	9

阿卡德	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Hsieh, M. -j.; Lin, J. -y; Wang, C. W.; Tseng, L. K.; Lu, C. E.; Pal, Arkadeb; Kuo, T. W.; Chou, Mitch M. C.; Yang, H. D.	Observation of magnetic field- induced second magnetic ordering and peculiar ferroelectric polarization in L- type ferrimagnetic Fe-2(MoO4)(3)	PHYSICAL REVIEW MATERIALS	6	9	94412	2022	9
錢德勒	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Hsieh, M. -j.; Lin, J. -y; Wang, C. W.; Tseng, L. K.; Lu, C. E.; Pal, Arkadeb; Kuo, T. W.; Chou, Mitch M. C.; Yang, H. D.	Observation of magnetic field- induced second magnetic ordering and peculiar ferroelectric polarization in L- type ferrimagnetic Fe-2(MoO4)(3)	PHYSICAL REVIEW MATERIALS	6	9	94412	2022	9
郭政育	Lin, Hsiu-Hsien; (中略); Kuo, Cheng-Yu; Ling, Decmend Fang-Jie; On, Alvina Y. L.; Peterson, Jeffrey B.; Raquel, Bjorn Jasper R.; (後略)	BURSTT: Bustling Universe Radio Survey Telescope in Taiwan	PUBLICATIO NS OF THE ASTRONOMI CAL SOCIETY OF THE PACIFIC	134	1039	id.0941 06, page 1- 14	2022	9
黃信銘	Anand, Khyati; Pal, Arkadeb; Joshi, Amish G.; Pal, Prabir; Singh, Rahul; Yen, Peter Tsung-Wen; Huang, S. M.; Alam, Md; Kumari, Seema; Sathe, Vasant; Chakravarty, Sujoy; Mohan, Anita; Chatterjee, Sandip	Giant exchange bias in antiferromagnetic Pr2CoFe0.5Mn0.5 O6: a structural and magnetic properties study	JOURNAL OF PHYSICS D- APPLIED PHYSICS	55	36	365004 (16pp)	2022	9

阿卡德	Gupta, Prince K.; Anand, Khyati; Alam, Mohd; Ghosh, Surajit; Kumari, Seema; Pal, Arkadeb; Singh, Mahima; Shukla, K. K.; Yen, Peter Tsung-Wen; Huang, Shin-Ming; Ghosh, A. K.; Chatterjee, Sandip	Reentrant double glassy states and simultaneous presence of short- and long-range ordering in metamagnetic Co- doped Bi _{0.5} La _{0.5} Fe _{0.5} Mn _{0.5} O ₃ multiferroic	SOLID STATE SCIENCES	131		106930 (9 pp)	2022	9
顏聰文	Anand, Khyati; Pal, Arkadeb; Joshi, Amish G.; Pal, Prabir; Singh, Rahul; Yen, Peter Tsung-Wen; Huang, S. M.; Alam, Md; Kumari, Seema; Sathe, Vasant; Chakravarty, Sujoy; Mohan, Anita; Chatterjee, Sandip	Giant exchange bias in antiferromagnetic Pr ₂ CoFe _{0.5} Mn _{0.5} O ₆ : a structural and magnetic properties study	JOURNAL OF PHYSICS D- APPLIED PHYSICS	55	36	365004 (16pp)	2022	9
鍾佳民	Chung, Chia-Min; Wauters, Matteo M.; Burrello, Michele	Matrix product state simulations of quantum quenches and transport in Coulomb blockaded superconducting devices	PHYSICAL REVIEW B	106	9	94308	2022	9
張鼎張	Lin, Jia-Hong; Ciou, Fong-Min; Chang, Ting- Chang; Lin, Yu- Shan; Hsu, Jui-Tse; Jin, Fu-Yuan; Chang, Kai-Chun; Kuo, Ting-Tzu; Chen, Kuan-Hsu; Hung, Yang-Hao; Zheng, Yu-Zhe	Abnormal Threshold Voltage Degradation Under Semi-On State Stress in Si ₃ N ₄ /AlGaIn/GaN -HEMT	IEEE ELECTRON DEVICE LETTERS	43	9	1420- 1423	2022	9

藍梁瑋	Chang, Aldrin G.; Lan, Liang-Wei; Chan, Yao-Jui; Kuo, Chia-Nung; Chen, Ting; Huang, Chih-Heng; Chuang, Tzu-Hung; Wei, Der-Hsin; Lue, Chin-Shan; Kuo, Chien-Cheng	Trigonal distortion in zigzag- antiferromagnet iron phosphorus trisulfide	PHYSICAL REVIEW B	106	12	125412	2022	9
闕郁倫	Zhao, Kun; Meng, Jingke; Zhong, Ming; Li, Suixin; Niu, Yunxia; Liu, Hongjie; Gu, Bing- Ni; Liu, Ming-Jin; Zhang, Ding; Kong, Lingbin; Chueh, Yu-Lun	Design of a Self- Powered System by Wind-Driven Triboelectric Nanogenerator Based on 0.94(Bi0.5Na0.5)Ti O3- 0.06Ba(Zr0.25Ti0. 75)O- 3/Polyvinylidene Fluoride (BNT- BZT/PVDF) Composites	SMALL	18	39		2022	9
陳敏甄	Huang, Bo-Shen; Chang, Ting- Chang; Tai, Mao- Chou; Chang, Han- Yu; Zhou, Kuan-Ju; Sun, Li-Chuan; Huang, Jen-Wei; Chen, Ming-Chen; Huang, Hui-Chun	Abnormal Hump and Two-Step Degradation of Top Gate a- InGaZnO TFTs Under Positive Bias Stress	IEEE TRANSACTION S ON ELECTRON DEVICES	69	8	4288- 4292	2022	8
張鼎張	Huang, Bo-Shen; Chang, Ting- Chang; Tai, Mao- Chou; Chang, Han- Yu; Zhou, Kuan-Ju; Sun, Li-Chuan; Huang, Jen-Wei; Chen, Ming-Chen; Huang, Hui-Chun	Abnormal Hump and Two-Step Degradation of Top Gate a- InGaZnO TFTs Under Positive Bias Stress	IEEE TRANSACTION S ON ELECTRON DEVICES	69	8	4288- 4292	2022	8

張鼎張	Chou, Sheng-Yao; Lin, Shih-Kai; Chang, Ting-Chang; Tsai, Tsung-Ming; Huang, Jen-Wei; Chen, Shih-Wei; Shen, Chang-Hong; Shieh, Jia-Min; Lin, Chao-Cheng; Yang,	Advanced supercritical fluid technique to reduce amorphous silicon defects in heterojunction solar cells	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	37	8	85011	2022	8
張鼎張	Chen, Yu-An; Zheng, Yu-Zhe; Chang, Ting-Chang; Zhou, Kuan-Ju; Sun, Pei-Jun; Hung, Yang-Hao; Lee, Ya-Huan; Tsai, Tsung-Ming; Chen, Jin-Wei; Kuo, Chuan-Wei; Tsai, Chia-Hung;	Investigation of the Self-Heating Effect in High Performance Organic TFTs With Multi-Finger Structure	IEEE ELECTRON DEVICE LETTERS	43	8	1243-1246	2022	8
張鼎張	Ciou, Fong-Min; Chen, Po-Hsun; Chang, Ting-Chang; Lin, Yu-Shan; Jin, Fu-Yuan; Hsu, Jui-Tse; Lin, Jia-Hong; Chang, Kai-Chun; Kuo, Ting-Tzu; Chen,	Analysis of the buffer trap-induced kink effect in AlGaIn/GaN HEMT on SiC substrate	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	37	8	85022	2022	8
黃信銘	Yen, Peter Tsung-Wen; Wu, Hung-Cheng; Huang, Shin-Ming	First-principles study of the crystal and magnetic structures of multiferroic Cu ₂ OCl ₂	JOURNAL OF PHYSICS-CONDENSED MATTER	34	33	335602 (9pp)	2022	8
顏聰文	Yen, Peter Tsung-Wen; Wu, Hung-Cheng; Huang, Shin-Ming	First-principles study of the crystal and magnetic structures of multiferroic Cu ₂ OCl ₂	JOURNAL OF PHYSICS-CONDENSED MATTER	34	33	335602 (9pp)	2022	8

黃旭明	Huang, Shiu-Ming; Wang, Pin-Cing; Cheng, Fu-En	A singular paramagnetic susceptibility peak in a WSe ₂ /MoSe ₂ chemical bonding structure	APPLIED PHYSICS LETTERS	121	6	63102	2022	8
莊豐權	Sufyan, Ali; Maghirang III, Aniceto B.; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Electronic and topological band evolution of VB- group transitionmetal monocarbides M ₂ C (M=V, Nb, or Ta) bulk and monolayer	MATERIALS TODAY COMMUNICA TIONS	32		103875	2022	8
許嘉修	Sufyan, Ali; Maghirang III, Aniceto B.; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Electronic and topological band evolution of VB- group transitionmetal monocarbides M ₂ C (M=V, Nb, or Ta) bulk and monolayer	MATERIALS TODAY COMMUNICA TIONS	32		103875	2022	8
黃志權	Sufyan, Ali; Maghirang III, Aniceto B.; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Electronic and topological band evolution of VB- group transitionmetal monocarbides M ₂ C (M=V, Nb, or Ta) bulk and monolayer	MATERIALS TODAY COMMUNICA TIONS	32		103875	2022	8
麥喈妮	Sufyan, Ali; Maghirang III, Aniceto B.; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Electronic and topological band evolution of VB- group transitionmetal monocarbides M ₂ C (M=V, Nb, or Ta) bulk and monolayer	MATERIALS TODAY COMMUNICA TIONS	32		103875	2022	8

蘇飛揚	Sufyan, Ali; Maghirang III, Aniceto B.; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Electronic and topological band evolution of VB- group transition metal monocarbides M ₂ C (M=V, Nb, or Ta) bulk and monolayer	MATERIALS TODAY COMMUNICA TIONS	32		103875	2022	8
周雄	Sun, Shih-Jye; Chou, Hsiung	Model investigation of high-temperature superconductor/col ossal manganite interfaces	RESULTS IN PHYSICS	39			2022	8
張鼎張	Wu, Pei-Yu; Tsai, Xin-Ying; Chang, Ting-Chang; Yeh, Yu-Hsuan; Huang, Wei-Chen; Chang, Kai-Chun; Tsai, Tsung-Ming; Huang, Jen-Wei	Analysis of Abnormal Current Rise Mechanism in GaN-MIS HEMT With Al ₂ O ₃ /Si ₃ N ₄ Gate Insulator Under Hot Switching	IEEE TRANSACTION S ON ELECTRON DEVICES	69	8	4218- 4223	2022	8
郭政育	Issaoun, Sara; (中 略); Kuo, Cheng- Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad;(後	Resolving the Inner Parsec of the Blazar J1924-2914 with the Event Horizon Telescope	ASTROPHYSI CAL JOURNAL	934	2	id.145, page 1- 21	2022	8
孫士傑	Sun, Shih-Jye; Chou, Hsiung	Model investigation of high-temperature superconductor/col ossal manganite interfaces	RESULTS IN PHYSICS	39			2022	8
莊豐權	Purwitasari, Winda; Villaos, Rovi Angelo B.; Verzola, Ina Marie R.; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	High Thermoelectric Performance in 2D Technetium Dichalcogenides TcX ₂ (X = S, Se, or Te)	ACS APPLIED ENERGY MATERIALS	5	7	8650- 8657	2022	7

陳易馨	Yu-Chi Chen, Shao-Cheng Fang, Hsiu-Hsuan Lin, Jing-Wu Dong, and Yi-Hsin Chen	Investigation of alkali vapor diffusion characteristics through microchannels	Physics of Fluids	34		72004	2022	7
陳宗緯	Chen, Bo-Hung; Chen, Tsung-Wei; Chiou, Dah-Wei	Two-path interference of single-particle pulses measured by the Unruh-DeWitt-type quantum detector	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	55	30		2022	7
邱大維	Chen, Bo-Hung; Chen, Tsung-Wei; Chiou, Dah-Wei	Two-path interference of single-particle pulses measured by the Unruh-DeWitt-type quantum detector	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	55	30		2022	7
李定國	Liu, Yi-Hsuan; Zhang, Sheng; Zhang, Puhan; Lee, Ting-Kuo; Chern, Gia-Wei	Machine learning predictions for local electronic properties of disordered correlated electron systems	PHYSICAL REVIEW B	106	3		2022	7
陳敏甄	Lin, Chun-Chu; Chen, Po-Hsun; Chen, Min-Chen; Wang, Min-Chuan; Yang, Chih-Cheng; Huang, Hui-Chun; Wu, Chung-Wei; Chou, Sheng-Yao; Tsai, Tsung-Ming; Chang, Ting-Chang	Improved diffusion and storage of lithium ions via recrystallization induced conducting pathways in a Li:Ta2O5-based electrolyte for all-solid-state electrochromic devices with enhanced performance	NANOTECHNOLOGY	33	27	275711	2022	7

張鼎張	Lin, Chun-Chu; Chen, Po-Hsun; Chen, Min-Chen; Wang, Min-Chuan; Yang, Chih-Cheng; Huang, Hui-Chun; Wu, Chung-Wei; Chou, Sheng-Yao; Tsai, Tsung-Ming; Chang, Ting-Chang	Improved diffusion and storage of lithium ions via recrystallization induced conducting pathways in a Li:Ta2O5-based electrolyte for all-solid-state electrochromic devices with enhanced performance	NANOTECHNOLOGY	33	27	275711	2022	7
張鼎張	Liu, Yan-Wen; Kuo, Chuan-Wei; Chang, Ting-Chang; Hung, Yu-Chiang; Tan, Yung-Fang; Wu, Chia-Chuan; Lin, Chien-Hung; Chen, Wen-Chung; Hu, Wen-Long; Tsai, Tsung-	Analysis of Meridian Flow Direction by Electrical Stimulation Method	NANOSCALE RESEARCH LETTERS	17	1	64	2022	7
陳敏甄	Lin, Shih-Kai; Chen, Min-Chen; Chang, Ting-Chang; Lien, Chen-Hsin; Wu, Cheng-Hsien; Lin, Yu-Shuo; Wu, Pei-Yu; Tan, Yung-Fang; Huang, Wei-Chen; Zhang, Yong-Ci; Chou, Sheng-Yao; Wu, Chung-Wei; Sze, Simon M.	Use of a supercritical fluid treatment to improve switching region in resistive random access memory	APPLIED PHYSICS EXPRESS	15	6	64006	2022	6
張鼎張	Tu, Yu-Fa; Chiang, Cheng-Ling; Chang, Ting-Chang; Hung, Yang-Hao; Sun, Li-Chuan; Kuo, Chuan-Wei; Tu, Hong-Yi; Huang, Hui-Chun; Lien,	Improving Reliability of a-InGaZnO TFTs With Optimal Location of Al2O3 Passivation in Moist Environment	IEEE TRANSACTIONS ON ELECTRON DEVICES	69	6	3181-3185	2022	6

麥喈妮	Maghirang Iii, Aniceto B.; Macam, Gennevieve; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Interplay between anisotropic spin texture and large gap topological insulating phases in functionalized MXenes	CHINESE JOURNAL OF PHYSICS	77		2346- 2354	2022	6
蘇飛揚	Maghirang Iii, Aniceto B.; Macam, Gennevieve; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Interplay between anisotropic spin texture and large gap topological insulating phases in functionalized MXenes	CHINESE JOURNAL OF PHYSICS	77		2346- 2354	2022	6
黃志權	Maghirang Iii, Aniceto B.; Macam, Gennevieve; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Interplay between anisotropic spin texture and large gap topological insulating phases in functionalized MXenes	CHINESE JOURNAL OF PHYSICS	77		2346- 2354	2022	6
許嘉修	Maghirang Iii, Aniceto B.; Macam, Gennevieve; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Interplay between anisotropic spin texture and large gap topological insulating phases in functionalized MXenes	CHINESE JOURNAL OF PHYSICS	77		2346- 2354	2022	6
莊豐權	Maghirang Iii, Aniceto B.; Macam, Gennevieve; Sufyan, Ali; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng-Chuan	Interplay between anisotropic spin texture and large gap topological insulating phases in functionalized MXenes	CHINESE JOURNAL OF PHYSICS	77		2346- 2354	2022	6
蔡民雄	Tang, Yu-Hui; Huang, Bao-Huei; Tsai, Min-Hsiung	Implementation of the relativistic effects on spin in first-principles electronic structure and magnetic property calculations	CHINESE JOURNAL OF PHYSICS	77		1579- 1586	2022	6

李定國	Chen, Yi-Ling; Chen, Chun-Chung; Mei, Yu-Ying; Zhou, Ning; Wu, Dongchuan; Lee, Ting-Kuo	Ubiquitous proximity to a critical state for collective neural activity in the CA1 region of freely moving mice	CHINESE JOURNAL OF PHYSICS	77		497-510	2022	6
洪昇廷	Mukherjee, Srijit; Thomas, Connor; Wilson, Ryan; Simmerman, Emma; Hung, Sheng-Ting; Jimenez, Ralph	Characterizing dark state kinetics and single molecule fluorescence of FusionRed and FusionRed-MQ at	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	24	23	14310- 14323	2022	6
周雄	Samoshkina, Yulia E.; Petrov, Dmitry A.; Chou, Hsiung	Low-hydrogenated ZnCoAlO films: structure, magneto- optical and magnetic behavior	APPLIED PHYSICS A- MATERIALS SCIENCE & PROCESSING	128	6		2022	6
洪昇廷	Mukherjee, Srijit; Manna, Premashis; Hung, Sheng-Ting; Vietmeyer, Felix; Friis, Pia; Palmer, Amy E.; Jimenez, Ralph	Directed Evolution of a Bright Variant of mCherry: Suppression of Nonradiative Decay by Fluorescence Lifetime Selections	JOURNAL OF PHYSICAL CHEMISTRY B	126	25	4659- 4668	2022	6
洪昇廷	Hsiao, Yu-Sheng; Yen, Shih-Chieh; Wu, Po -, I; Quinones, Edgar Daniel; Hung, Sheng-Ting; Chen, Chi-Shuo; Tsai, Shih-Ming	Microfluidic organic bioelectronic chips for efficient isolation of trophoblast cells using a combination of rational catenation and electrically controllable refining	MATERIALS CHEMISTRY AND PHYSICS	285		126164	2022	6

張鼎張	Zhou, Kuan-Ju; Chen, Po-Hsun; Zheng, Yu-Zhe; Tai, Mao-Chou; Wang, Yu-Xuan; Chien, Ya-Ting; Sun, Pei-Jun; Huang, Hui-Chun; Chang, Ting-Chang; Sze, Simon	Heterogeneous metal oxide channel structure for ultra-high sensitivity phototransistor with modulated operating conditions	JOURNAL OF MATERIALS CHEMISTRY C	10	24	9192-9197	2022	6
張鼎張	Zheng, Yu-Zhe; Chen, Yu-An; Chen, Po-Hsun; Chang, Ting-Chang; Hung, Yang-Hao; Zhou, Kuan-Ju; Tu, Yu-Fa; Wang, Yu-Xuan; Chen, Jian-Jie; Wu, Chia-Chuan; Sun, Pei-Jun; Tsai, Tsung-Ming; Tsai, Chia-	Physical Mechanism of the Mechanical Bending of High-Performance Organic TFTs and the Effect of Atmospheric Factors	ACS APPLIED ELECTRONIC MATERIALS	4	6	3000-3009	2022	6
張鼎張	Wang, Kao-Yuan; Chang, Ting-Chang; Chen, Wen-Chung; Zhang, Yong-Ci; Tseng, Yi-Ting; Yang, Chih-Cheng; Lin, Chun-Chu; Wu, Pei-Yu; Tan, Yung-Fang; Tsai, Tsung-	Investigations on TaHf alloys for thin film resistor applications	MATERIALS CHEMISTRY AND PHYSICS	285	1	126027	2022	6
張鼎張	Kuo, Ting-Tzu; Chen, Ying-Chung; Chang, Ting-Chang; Tai, Mao-Chou; Wang, Yu-Xuan; Chen, Kuan-Hsu; Lin, Yu-Shan; Ciou, Fong-Min; Jin, Fu-Yuan; Chang, Kai-Chun; Hung, Wei-Chun; Chang, Yen-Cheng; Yeh, Chien-Hung	Analysis of abnormal threshold voltage shift induced by surface donor state in GaN HEMT on SiC substrate	APPLIED PHYSICS LETTERS	120	23	233505	2022	6

張鼎張	Chang, Kai-Chun; Chen, Po-Hsun; Chang, Ting-Fang; Chen, Yung-Chung; Yeh, Chien-Hung; Ciou, Fong-Min; Tai, Mao-Chou; Tsai, Tsung-Ming; Sze, Simon	A Method to Measure Polarization Signal of Nanoscale One-Transistor-One-Capacitor Ferroelectric Memory	IEEE ELECTRON DEVICE LETTERS	43	6	862-865	2022	6
張鼎張	Lin, Shih-Kai; Chen, Min-Chen; Chang, Ting-Chang; Lien, Chen-Hsin; Wu, Cheng-Hsien; Lin, Yu-Shuo; Wu, Pei-Yu; Tan, Yung-Fang; Huang, Wei-Chen; Zhang, Yong-Ci; Chou, Sheng-Yao; Wu, Chung-Wei; Sze, Simon M.	Use of a supercritical fluid treatment to improve switching region in resistive random access memory	APPLIED PHYSICS EXPRESS	15	6	64006	2022	6
郭政育	Akiyama, Kazunori; (中略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad;(後略)	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole	ASTROPHYSICAL JOURNAL LETTERS	930	2	id.L16, page 1-49	2022	5
郭政育	Akiyama, Kazunori; (中略).; Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad;(後略)	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass	ASTROPHYSICAL JOURNAL LETTERS	930	2	id.L15, page 1-52	2022	5

郭政育	Akiyama, Kazunori; (前略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad; (後略)	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole	ASTROPHYSI CAL JOURNAL LETTERS	930	2	id.L14, page 1- 64	2022	5
郭政育	Akiyama, Kazunori; (中略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad; (後略)	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric	ASTROPHYSI CAL JOURNAL LETTERS	930	2	id.L17, page 1- 44	2022	5
郭政育	Wielgus, Maciek; (中略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad; Li, Zhiyuan; Lico, Rocco; (後	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign	ASTROPHYSI CAL JOURNAL LETTERS	930	2	id.L19, page 1- 32	2022	5
郭政育	Broderick, Avery E.; (中略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad; (後略)	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm- VLBI	ASTROPHYSI CAL JOURNAL LETTERS	930	2	id.L21, page 1- 30	2022	5
郭政育	Akiyama, Kazunori; (中略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad; (後略)	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration	ASTROPHYSI CAL JOURNAL LETTERS	930	2	id.L13, page 1- 31	2022	5

郭政育	Georgiev, Boris; (中略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Lehner, Luis; Leung, Po Kin; Levis, Aviad; (後略)	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows	ASTROPHYSI CAL JOURNAL LETTERS	930	2	id.L20, page 1- 32	2022	5
郭政育	Akiyama, Kazunori; (中略); Kuo, Cheng-Yu; La Bella, Noemi; Lauer, Tod R.; Lee, Daeyoung; Lee, Sang-Sung; Leung, Po Kin; Levis, Aviad; (後略)	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way	ASTROPHYSI CAL JOURNAL LETTERS	930	2	id.L12, page 1- 21	2022	5
蘇飛揚	Sufyan, Ali; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Robust Tunable Large-Gap Quantum Spin Hall States in Monolayer Cu2S on Insulating Substrates	ACS OMEGA	7	18	15760- 15768	2022	5
麥喈妮	Sufyan, Ali; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Robust Tunable Large-Gap Quantum Spin Hall States in Monolayer Cu2S on Insulating Substrates	ACS OMEGA	7	18	15760- 15768	2022	5
黃志權	Sufyan, Ali; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Robust Tunable Large-Gap Quantum Spin Hall States in Monolayer Cu2S on Insulating Substrates	ACS OMEGA	7	18	15760- 15768	2022	5
許嘉修	Sufyan, Ali; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Robust Tunable Large-Gap Quantum Spin Hall States in Monolayer Cu2S on Insulating Substrates	ACS OMEGA	7	18	15760- 15768	2022	5

莊豐權	Sufyan, Ali; Macam, Gennevieve; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Chuang, Feng- Chuan	Robust Tunable Large-Gap Quantum Spin Hall States in Monolayer Cu ₂ S on Insulating Substrates	ACS OMEGA	7	18	15760- 15768	2022	5
王韋翔	Wang, Wei-Hsiang; Pan, Ching-Yang; Liu, Chak-Ming; Lin, Wen-Chin; Jiang, Pei-hsun	Chirality-Induced Noncollinear Magnetization and Asymmetric Domain-Wall Propagation in Hydrogenated CoPd Thin Films	ACS APPLIED MATERIALS & INTERFACES	14	17	20151- 20158	2022	5
陳易馨	Chang, Chih-Chun; Chen, Yi-Hsin; Chen, Guang-Yin; Lin, Lee	Manipulating quantum interference of dressed photon fields	OPTICS EXPRESS	30	11	18156- 18167	2022	5
許嘉修	Lin, Yen-Hui; Hsu, Chia-Hsiu; Jang, Iksu; Chen, Chia- Ju; Chiu, Pok-Man; Lin, Deng-Sung; Wu, Chien-Te; Chuang, Feng- Chuan; Chang, Po- Yao; Hsu, Pin-Jui	Proximity-Effect- Induced Anisotropic Superconductivity in a Monolayer Ni- Pb Binary Alloy	ACS APPLIED MATERIALS & INTERFACES	14	20	23990- 23997	2022	5
莊豐權	Lin, Yen-Hui; Hsu, Chia-Hsiu; Jang, Iksu; Chen, Chia- Ju; Chiu, Pok-Man; Lin, Deng-Sung; Wu, Chien-Te; Chuang, Feng- Chuan; Chang, Po- Yao; Hsu, Pin-Jui	Proximity-Effect- Induced Anisotropic Superconductivity in a Monolayer Ni- Pb Binary Alloy	ACS APPLIED MATERIALS & INTERFACES	14	20	23990- 23997	2022	5

關郁倫	Niu, Wen-Jun; Sun, Qiao-Qiao; He, Jin-Zhong; Chen, Jiang-Lei; Gu, Bingni; Liu, Ming-Jin; Chung, Chia-Chen; Wu, Youzhi; Chueh, Yu-Lun	Zeolitic Imidazolate Framework-Derived Copper Single Atom Anchored on Nitrogen-Doped Porous Carbon as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction toward	CHEMISTRY OF MATERIALS	34	9	4104-4114	2022	5
蘇萬生	Yang, Riyi; Chen, Yu-Yo; Guo, Yanrong; Shen, Hong; Wang, Songyou; Jia, Yu; Su, Wan-Sheng	A first-principles study of structural, electronic and optical properties of alpha-Te tubular nanostructures modulated by uniaxial strain	NEW JOURNAL OF PHYSICS	24	5	53037	2022	5
張鼎張	Hung, Wei-Chun; Tu, Yu-Fa; Chang, Ting-Chang; Tai, Mao-Chou; Tan, Yung-Fang; Chen, Kuan-Hsu; Yeh, Chien-Hung; Tu, Hong-Yi; Kuo, Hung-Ming	Abnormal On-Current Degradation Under Non-Conductive Stress in Contact Field Plate Lateral Double-Diffused Metal-Oxide-Semiconductor Transistor With 0.13- μ m Bipolar-CMOS-DMOS Technology	IEEE ELECTRON DEVICE LETTERS	43	5	769-772	2022	5
黃旭明	Huang, Shiu-Ming; Wang, Pin-Cing; Chen, Pin-Cyuan	The Lattice Distortion-Induced Ferromagnetism in the Chemical-Bonded MoSe ₂ /WSe ₂ at Room Temperature	NANOSCALE RESEARCH LETTERS	17	1	55	2022	5

林德鴻	Lin, De-Hone	Conformal Deformation, Monopoles, and Their Application to Control the Measurement, Berry Phase's Path, and Resonant Frequency of a Spin	SYMMETRY-BASEL	14	5	921-937	2022	5
張鼎張	Zheng, Yu-Zhe; Chen, Po-Hsun; Chang, Ting-Chang; Tsai, Tsung-Ming; Zhou, Kuan-Ju; Tu, Yu-Fa; Wang, Yu-Xuan; Wu, Chia-Chuan; Chen, Yu-An; Sun, Pei-Jun; Chen, Juan-Jie; Tu, Hong-Yi; Hung, Yang-Hao; Lin, Yu-Shan; Ciou, Fong-Min; Shih, Yu-Shan; Huang, Hui-	Enhancing Reliability and 2 mm-Axial Mechanical Bending Endurance by Gate Insulator Improvements in Flexible Polycrystalline Silicon TFTs	IEEE TRANSACTIONS ON ELECTRON DEVICES	69	5	2423-2429	2022	5
李定國	Chiu, Fan-Yun; Hung, Tsu-Lien; Liu, Cheng-Yen; Pai, Ya-Hsin; Chien, Wei-Liang; Chen, Peng-Jen; Lee, Ting-Kuo; Wang, Ming-Jye; Ou, Min-Nan; Tsuei, Chang C.; Wu, Maw-Kuen; Chang, Chia-Seng; Chen, Yang-Yuan	Absence of superconductivity in micrometer-sized epsilon-NbN single crystals	PHYSICAL REVIEW B	105	17		2022	5
郭政育	Farah, Joseph; (中略); Kuo, Cheng-Yu; Lauer, Tod R.; Lee, Sang-Sung; Levis, Aviad; Li, Yan-Rong; Li, Zhiyuan; Lico, Rocco;(後略)	Selective Dynamical Imaging of Interferometric Data	ASTROPHYSICAL JOURNAL LETTERS	930	2	id.L18, page 1-21	2022	5

張鼎張	Tu, Hong-Yi; Chang, Ting- Chang; Tsao, Yu- Ching; Tai, Mao- Chou; Zheng, Yu- Zhe; Tu, Yu-Fa; Kuo, Chuan-Wei; Wu, Chia-Chuan; Tsai, Yu-Lin; Tsai, Tsung-Ming; Lin, Chih-Chih; Chien, Ya-Ting	Abnormal Two- Stage Degradation on P-Type Low- Temperature Polycrystalline- Silicon Thin-Film Transistor Under Hot Carrier Conditions	IEEE ELECTRON DEVICE LETTERS	43	5	721-724	2022	5
黃信銘	Belopolski, Ilya; Chang, Guoqing; Cochran, Tyler A.; Cheng, Zi-Jia; Yang, Xian P.; Hugelmeyer, Cole; Manna, Kaustuv; Yin, Jia-Xin; Cheng, Guangming; Multer, Daniel; Litskevich, Maksim; Shumiya, Nana; Zhang, Songtian S.; Shekhar, Chandra; Schroeter, Niels B. M.; Chikina, Alla; Polley, Craig; Thiagarajan, Balasubramanian; Leandersson, Mats; Adell, Johan; Huang, Shin-Ming; Yao, Nan; Strocov, Vladimir N.; Felser, Claudia; Hasan, M.	Observation of a linked-loop quantum state in a topological magnet	NATURE	604	7907	647-652	2022	4

張鼎張	Kuo, Ting-Tzu; Chen, Ying-Chung; Chang, Ting- Chang; Chang, Kai- Chun; Yeh, Chien- Hung; Ciou, Fong- Min; Lin, Yu-Shan; Lin, Yun-Hsuan; Jin, Fu-Yuan; Hung, Wei-Chun; Chang, Yen-Cheng; Chen, Kuan-Hsu; Lin, Jia-Hong	Abnormal trend in hot carrier degradation with fin profile in short channel FinFET devices at 14 nm node	SEMICONDU CTOR SCIENCE AND TECHNOLOG Y	37	4	45010	2022	4
楊弘敦	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe2O5	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4
周雄	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe2O5	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4

阿卡德	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe2O5	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4
Wu, H. C.	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe2O5	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4
莊豐權	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe2O5	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4

Hsu, C. H.	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe2O5	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4
Macam, G.	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe2O5	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4
張鼎張	Zhou, Kuan-Ju; Zheng, Yu-Zhe; Tai, Mao-Chou; Chen, Po-Hsun; Hung, Yang-Hao; Tu, Yu-Fa; Chen, Jian-Jie; Hung, Wei-Chun; Wang, Yu-Xuan; Chien, Ya-Ting; Sun, Pei- Jun; Huang, Hui- Chun; Chang, Ting- Chang	Suppressing Drain- Induced Barrier Lowering and Kink Effect in Low- Temperature Poly- Si TFTs Using a Partitioned Light Shield	IEEE ELECTRON DEVICE LETTERS	43	4	576-579	2022	4
狄米契	Giataganas, Dimitrios; Huang, Ching-Yu; Lin, Feng-Li	Neural network flows of low q- state Potts and clock models	NEW JOURNAL OF PHYSICS	24	4	43040(1 -26)	2022	4

張鼎張	Hung, Yang-Hao; Chang, Ting- Chang; Tu, Yu-Fa; Lu, I-Nien; Zheng, Yu-Zhe; Chiang, Cheng-Ling; Chen, Jian-Jie; Kuo, Chuan-Wei; Sun, Li-Chuan; Zhou, Kuan-Ju	Improving Drain- Induced Barrier Lowering Effect and Hot Carrier Reliability With Terminal via Structure on Half- Corbino Organic Thin-Film Transistors	IEEE ELECTRON DEVICE LETTERS	43	4	569-572	2022	4
錢德勒	Tiwari, Ajay; Kakarla, D. Chandrasekhar; Macam, G.; Hsu, C. H.; Chuang, F. C.; Wu, H. C.; Kuo, T. W.; Pal, Arkadeb; Chou, H.; Gulo, D. P.; Liu, H. L.; Chuang, Y. C.; Lai, Y. C.; Lee, C. A.; Chou, Mitch M. C.; Yang, H. D.	Spin-lattice-charge coupling in quasi- one-dimensional spin-chain NiTe ₂ O ₅	PHYSICAL REVIEW MATERIALS	6	4	44409	2022	4
錢德勒	Sudakshina, B.; Suneesh, M., V; Arun, B.; Kakarla, D. Chandrasekhar; Vasundhara, M.	Effects of Cr,Co,Ni substitution at Mn- site on structural, magnetic properties and critical behaviour in Nd _{0.67} Ba _{0.33} MnO 3 mixed-valent	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	548		168980	2022	4
黃信銘	Sarkar, Anan Bari; Mardanya, Sougata; Huang, Shin-Ming; Ghosh, Barun; Huang, Cheng-Yi; Lin, Hsin; Bansil, Arun; Chang, Tay- Rong; Agarwal, Amit; Singh, Bahadur	Magnetically tunable Dirac and Weyl fermions in the Zintl materials family	PHYSICAL REVIEW MATERIALS	6	4		2022	4

闕郁倫	Cui, Chong-Yang; Li, Cai-Xia; Liu, Wen-Wu; Liu, Yu- Cheng; Niu, Sheng- Tao; Xu, Zhi- Qiang; Zou, Rong; Niu, Wen-Jun; Liu, Mao-Cheng; Liu, Ming-Jin; Gu, Bingni; Zhao, Kun; Liu, Na; Lin, Chun- Jung; Wu, You-Zhi; Chueh, Yu-Lun	Rational Design on Chemical Regulation of Interfacial Microstress Engineering by Matching Young's Modulus in a CsPbBr ₃ Perovskite Film with Mechanical Compatibility toward Enhanced Photoelectric Conversion Efficiency	ACS APPLIED MATERIALS & INTERFACES	14	17	20257- 20267	2022	4
張鼎張	Huang, Wei-Chen; Chen, Po-Hsun; Chang, Ting- Chang; Zheng, Hao- Xuan; Yeh, Yu- Hsuan; Wu, Chung- Wei; Tan, Yung- Fang; Lin, Shih- Kai; Wu, Pei-Yu; Sze, Simon. M.	A Functional Novel Logic for Max/Min Computing in One- Transistor-One- Resistor Devices With Resistive Random Access Memory (RRAM)	IEEE TRANSACTION S ON ELECTRON DEVICES	69	4	1811- 1815	2022	4
錢德勒	Chen, H. J.; Yeh, C. H.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Wu, H. C.; Yen, T. W.; Huang, S. M.; Chou, H.; Chou, M. C.; Chen, H. W.; Kuo, S. W.; Chuang, Y. C.; Chang, C. K.; Eckstein, U.; Khansur, N. H.; Webber, K. G.; Yang, H. D.	Unique multiferroics with tunable ferroelastic transition in antiferromagnet Mn ₂ V ₂ O ₇	MATERIALS TODAY PHYSICS	23		100623	2022	3

張鼎張	Tu, Yu-Fa; Chang, Ting-Chang; Zhou, Kuan-Ju; Hung, Yang-Hao; Zheng, Yu-Zhe; Chen, Jian-Jie; Tai, Mao-Chou; Wang, Yu-Xuan; Hung, Wei-Chun; Hung, Wei-Chieh; Lien, Chen-	Analysis of self-heating-related instability in n-channel low-temperature polysilicon TFTs with different S/D contact hole densities	APPLIED PHYSICS EXPRESS	15	3	34003	2022	3
張鼎張	Yu-Xuan Wang; Ting-Chang Chang; Mao-Chou Tai; Chia-Chuan Wu; Yu-Zhe Zheng; Yu-Fa Tu; Jian-Jie Chen; Kuan-Ju Zhou; Yu-Shan Shih; Yu-An Chen; Jen-Wei Huang; Sze, Simon	Improvement of Strained Negative Bias Temperature Instability in Flexible LTPS TFTs by a Stress-Release Design	IEEE TRANSACTIONS ON ELECTRON DEVICES	69	3	1532-1537	2022	3
黃志權	Feng, Liang-Ying; Villaos, Rovi Angelo B.; Maghirang, Aniceto B., III; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Lin, Hsin; Chuang, Feng-Chuan	Prediction of topological Dirac semimetal in Ca-based Zintl layered compounds CaM_2X_2 ($\text{M} = \text{Zn}$ or Cd ; $\text{X} = \text{N}, \text{P}, \text{As}, \text{Sb}, \text{or Bi}$)	SCIENTIFIC REPORTS	12	1	4582	2022	3
許嘉修	Feng, Liang-Ying; Villaos, Rovi Angelo B.; Maghirang, Aniceto B., III; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Lin, Hsin; Chuang, Feng-Chuan	Prediction of topological Dirac semimetal in Ca-based Zintl layered compounds CaM_2X_2 ($\text{M} = \text{Zn}$ or Cd ; $\text{X} = \text{N}, \text{P}, \text{As}, \text{Sb}, \text{or Bi}$)	SCIENTIFIC REPORTS	12	1	4582	2022	3

莊豐權	Feng, Liang-Ying; Villaos, Rovi Angelo B.; Maghirang, Aniceto B., III; Huang, Zhi- Quan; Hsu, Chia- Hsiu; Lin, Hsin; Chuang, Feng- Chuan	Prediction of topological Dirac semimetal in Ca- based Zintl layered compounds CaM ₂ X ₂ (M = Zn or Cd; X = N, P, As, Sb, or Bi)	SCIENTIFIC REPORTS	12	1	4582	2022	3
羅奕凱	Shih, Huei-Jyun; Lo, Ikai; Wang, Ying-Chieh; Tsai, Cheng-Da; Lin, Yu- Chung; Lu, Yi- Ying; Huang, Hui- Chun	Growth and Characterization of GaN/In _x Ga _{1-x} N/ In _y Al _{1-y} N Quantum Wells by Plasma-Assisted Molecular Beam Epitaxy	CRYSTALS	12	3	417	2022	3
蔡承達	Shih, Huei-Jyun; Lo, Ikai; Wang, Ying-Chieh; Tsai, Cheng-Da; Lin, Yu- Chung; Lu, Yi- Ying; Huang, Hui- Chun	Growth and Characterization of GaN/In _x Ga _{1-x} N/ In _y Al _{1-y} N Quantum Wells by Plasma-Assisted Molecular Beam Epitaxy	CRYSTALS	12	3	417	2022	3
盧怡穎	Shih, Huei-Jyun; Lo, Ikai; Wang, Ying-Chieh; Tsai, Cheng-Da; Lin, Yu- Chung; Lu, Yi- Ying; Huang, Hui- Chun	Growth and Characterization of GaN/In _x Ga _{1-x} N/ In _y Al _{1-y} N Quantum Wells by Plasma-Assisted Molecular Beam Epitaxy	CRYSTALS	12	3	417	2022	3
黃惠君	Shih, Huei-Jyun; Lo, Ikai; Wang, Ying-Chieh; Tsai, Cheng-Da; Lin, Yu- Chung; Lu, Yi- Ying; Huang, Hui- Chun	Growth and Characterization of GaN/In _x Ga _{1-x} N/ In _y Al _{1-y} N Quantum Wells by Plasma-Assisted Molecular Beam Epitaxy	CRYSTALS	12	3	417	2022	3

楊弘敦	Chen, H. J.; Yeh, C. H.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Wu, H. C.; Yen, T. W.; Huang, S. M.; Chou, H.; Chou, M. C.; Chen, H. W.; Kuo, S. W.; Chuang, Y. C.; Chang, C. K.; Eckstein, U.; Khansur, N. H.; Webber, K. G.; Yang, H. D.	Unique multiferroics with tunable ferroelastic transition in antiferromagnet Mn ₂ V ₂ O ₇	MATERIALS TODAY PHYSICS	23		100623	2022	3
周雄	Chen, H. J.; Yeh, C. H.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Wu, H. C.; Yen, T. W.; Huang, S. M.; Chou, H.; Chou, M. C.; Chen, H. W.; Kuo, S. W.; Chuang, Y. C.; Chang, C. K.; Eckstein, U.; Khansur, N. H.; Webber, K. G.; Yang, H. D.	Unique multiferroics with tunable ferroelastic transition in antiferromagnet Mn ₂ V ₂ O ₇	MATERIALS TODAY PHYSICS	23		100623	2022	3
黃信銘	Chen, H. J.; Yeh, C. H.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Wu, H. C.; Yen, T. W.; Huang, S. M.; Chou, H.; Chou, M. C.; Chen, H. W.; Kuo, S. W.; Chuang, Y. C.; Chang, C. K.; Eckstein, U.; Khansur, N. H.; Webber, K. G.; Yang, H. D.	Unique multiferroics with tunable ferroelastic transition in antiferromagnet Mn ₂ V ₂ O ₇	MATERIALS TODAY PHYSICS	23		100623	2022	3

顏聰文	Chen, H. J.; Yeh, C. H.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Wu, H. C.; Yen, T. W.; Huang, S. M.; Chou, H.; Chou, M. C.; Chen, H. W.; Kuo, S. W.; Chuang, Y. C.; Chang, C. K.; Eckstein, U.; Khansur, N. H.; Webber, K. G.; Yang, H. D.	Unique multiferroics with tunable ferroelastic transition in antiferromagnet Mn ₂ V ₂ O ₇	MATERIALS TODAY PHYSICS	23		100623	2022	3
許嘉修	Perez, Marku Nyevel R.; Villaos, Rovi Angelo B.; Feng, Liang-Ying; Maghirang III, Aniceto B.; Cheng, Chih-Peng; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Bansil, Arun; Chuang, Feng-Chuan	Quantum spin Hall insulating phase and van Hove singularities in Zintl single-quintuple-layer AM(2)X(2) (A = Ca, Sr, or Ba; M = Zn or Cd; X = Sb or Bi) family	APPLIED PHYSICS REVIEWS	9	1	11410	2022	3
Wu, H. C.	Chen, H. J.; Yeh, C. H.; Kuo, T. W.; Kakarla, D. Chandrasekhar; Wu, H. C.; Yen, T. W.; Huang, S. M.; Chou, H.; Chou, M. C.; Chen, H. W.; Kuo, S. W.; Chuang, Y. C.; Chang, C. K.; Eckstein, U.; Khansur, N. H.; Webber, K. G.; Yang, H. D.	Unique multiferroics with tunable ferroelastic transition in antiferromagnet Mn ₂ V ₂ O ₇	MATERIALS TODAY PHYSICS	23		100623	2022	3

莊豐權	Perez, Marku Nyevel R.; Villaos, Rovi Angelo B.; Feng, Liang-Ying; Maghirang III, Aniceto B.; Cheng, Chih-Peng; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Bansil, Arun; Chuang, Feng-Chuan	Quantum spin Hall insulating phase and van Hove singularities in Zintl single-quintuple-layer $AM(2)X(2)$ (A = Ca, Sr, or Ba; M = Zn or Cd; X = Sb or Bi) family	APPLIED PHYSICS REVIEWS	9	1	11410	2022	3
琪羅斌	Feng, Liang-Ying; Villaos, Rovi Angelo B.; Maghirang, Aniceto B., III; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Lin, Hsin; Chuang, Feng-Chuan	Prediction of topological Dirac semimetal in Ca-based Zintl layered compounds CaM_2X_2 (M = Zn or Cd; X = N, P, As, Sb, or Bi)	SCIENTIFIC REPORTS	12	1	4582	2022	3
黃旭明	Huang, Shiu-Ming; Lin, Chien; You, Sheng-Yu; Yan, You-Jhih; Yu, Shih-Hsun; Chou, Mitch	The quantum oscillations in different probe configurations in the $BiSbTe_3$ topological insulator macroflake	SCIENTIFIC REPORTS	12	1	5191	2022	3
黃志權	Perez, Marku Nyevel R.; Villaos, Rovi Angelo B.; Feng, Liang-Ying; Maghirang III, Aniceto B.; Cheng, Chih-Peng; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Bansil, Arun; Chuang, Feng-Chuan	Quantum spin Hall insulating phase and van Hove singularities in Zintl single-quintuple-layer $AM(2)X(2)$ (A = Ca, Sr, or Ba; M = Zn or Cd; X = Sb or Bi) family	APPLIED PHYSICS REVIEWS	9	1	11410	2022	3

琪羅斌	Perez, Marku Nyevel R.; Villaos, Rovi Angelo B.; Feng, Liang-Ying; Maghirang III, Aniceto B.; Cheng, Chih-Peng; Huang, Zhi-Quan; Hsu, Chia-Hsiu; Bansil, Arun; Chuang, Feng-Chuan	Quantum spin Hall insulating phase and van Hove singularities in Zintl single-quintuple-layer AM(2)X(2) (A = Ca, Sr, or Ba; M = Zn or Cd; X = Sb or Bi) family	APPLIED PHYSICS REVIEWS	9	1	11410	2022	3
張鼎張	Lin, Hsin-Ni; Chang, Ting-Chang; Chen, Wen-Chung; Tan, Yung-Fang; Chang, Kai-Chun; Lin, Shih-Kai; Yeh, Yu-Hsuan; Wu, Chung-Wei; Zhang, Yong-Ci; Yeh, Chien-Hung; Lee, Ya-Huan; Huang, Jen-	Effects of X-ray accelerating voltage on electrical properties and reliability for ferroelectric random-access memory (FeRAM)	APPLIED PHYSICS EXPRESS	15	3	34002	2022	3
許嘉修	Wang, Zhenyu; Huang, Cheng-Yi; Hsu, Chia-Hsiu; Namiki, Hiromasa; Chang, Tay-Rong; Chuang, Feng-Chuan; Lin, Hsin; Sasagawa, Takao; Madhavan, Vidya; Okada, Yoshinori	Observation of a van Hove singularity of a surface Fermi arc with prominent coupling to phonons in a Weyl semimetal	PHYSICAL REVIEW B	105	7	75110	2022	2
莊豐權	Ho, Chun Yuen; Li, Chia Hsiang; Liu, Chao Ping; Huang, Zhi-Quan; Chuang, Feng-Chuan; Yu, Kin Man	Doping limitation due to self-compensation by native defects in In-doped rocksalt Cd x Zn1-x O	JOURNAL OF PHYSICS-CONDENSED MATTER	34	6	65702	2022	2

闕郁倫	Chen, Kai; Chung, Feng-Ju; Lin, Yen-Ling; Lee, Yen-Ta; del Rocio Rodriguez-Laguna, Maria; Manikandan, Arumugam; Lu, Ming-Chang; Chueh, Yu-Lun	Metal- and Alloy-Based Core-Shell Particles in Nitrate Senary Salt with Low Thermal Hysteresis for Solar Thermal Energy Storage	ACS APPLIED ENERGY MATERIALS	5	3	2697-2705	2022	2
張鼎張	Lin, Yu-Shan; Chen, Yi-Lin; Chang, Ting-Chang; Ciou, Fong-Min; Zhu, Qing; Tai, Mao-Chou; Su, Wan-Ching; Kuo, Ting-Tzu; Chen, Kuan-Hsu; Zhu, Jie-Jie; Mi, Min-Han; Ma, Xiao-Hua; Hao, Yue	Investigating two-stage degradation of threshold voltage induced by off-state stress in AlGaIn/GaN HEMTs	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	37	2	25017	2022	2
鄭橙懋	Chen, K. H. M.; Lin, K. Y.; Lien, S. W.; Huang, S. W.; Cheng, C. K.; Lin, H. Y.; Hsu, C-H; Chang, T-R; Cheng, C-M; Hong, M.; Kwo, J.	Thickness-dependent topological phase transition and Rashba-like preformed topological surface states of alpha-Sn(001) thin films on InSb(001)	PHYSICAL REVIEW B	105	7		2022	2
黃志權	Ho, Chun Yuen; Li, Chia Hsiang; Liu, Chao Ping; Huang, Zhi-Quan; Chuang, Feng-Chuan; Yu, Kin Man	Doping limitation due to self-compensation by native defects in In-doped rocksalt Cd x Zn1-x O	JOURNAL OF PHYSICS-CONDENSED MATTER	34	6	65702	2022	2
莊豐權	Wang, Zhenyu; Huang, Cheng-Yi; Hsu, Chia-Hsiu; Namiki, Hiromasa; Chang, Tay-Rong; Chuang, Feng-Chuan; Lin, Hsin; Sasagawa, Takao; Madhavan, Vidya; Okada, Yoshinori	Observation of a van Hove singularity of a surface Fermi arc with prominent coupling to phonons in a Weyl semimetal	PHYSICAL REVIEW B	105	7	75110	2022	2

盧怡穎	Lu, Yi-Ying; Huang, Yan-Ting; Chen, Jia-Ni; Jhou, Jie; Lan, Liang- Wei; Kuo, Chien- Cheng; Hsu, Jui- Hung; Hsieh, Shang-Hsien; Chen, Chia-Hao; Sankar, Raman	Energy Barrier at Indium/Indium Selenide Nanosheet Interfaces: Implications of Metal-to-Insulator Transition for Field-Effect Transistor	ACS APPLIED NANO MATERIALS	5	2	1911- 1916	2022	2
郭建成	Lu, Yi-Ying; Huang, Yan-Ting; Chen, Jia-Ni; Jhou, Jie; Lan, Liang- Wei; Kuo, Chien- Cheng; Hsu, Jui- Hung; Hsieh, Shang-Hsien; Chen, Chia-Hao; Sankar, Raman	Energy Barrier at Indium/Indium Selenide Nanosheet Interfaces: Implications of Metal-to-Insulator Transition for Field-Effect Transistor	ACS APPLIED NANO MATERIALS	5	2	1911- 1916	2022	2
闕郁倫	Wang, Yan; Yu, Siming; Deng, Ce- yu; Wei, Hua-liang; Zhou, Jian-hao; Chen, Ze-Xiang; Yang, Huan; Liu, Ming-Jin; Gu, Bing-Ni; Chung, Chia-Chen; Lv, Hui-fang; Zhou, Zhi-yu; Chueh, Yu-	Hierarchically Hybrid Porous Co ₃ O ₄ @NiMoO ₄ / CoMoO ₄ Heterostructures for High- Performance Electrochemical Energy Storage	ACS APPLIED MATERIALS & INTERFACES	14	6	8282- 8296	2022	2
張鼎張	Chen, Po-Hsun; Lin, Chih-Yang; Chang, Ting- Chang; Eshraghian, Jason K.; Chao, Yu- Ting; Lu, Wei D.; Sze, Simon M.	Investigating Selectorless Property within Niobium Devices for Storage Applications	ACS APPLIED MATERIALS & INTERFACES	14	1	2343- 2350	2022	1
狄米契	Giataganas, Dimitrios	Chaotic Motion near Black Hole and Cosmological Horizons	FORTSCHRIT TE DER PHYSIK- PROGRESS OF PHYSICS	70	1	220000 1(1-7)	2022	1

錢德勒	Pal, Arkadeb; Kuo, T. W.; Hsu, Chia-Hsiu; Kakarla, D. Chandrasekhar; Tiwari, Ajay; Chou, M. C.; Patra, Atanu; Yanda, P.; Blundo, E.; Polimeni, A.; Sundaresan, A.; Chuang, F. C.; Yang, H. D.	Interplay of lattice, spin, and dipolar properties in CoTeMoO6: Emergence of Griffiths-like	PHYSICAL REVIEW B	105	2	24420	2022	1
許嘉修	Pal, Arkadeb; Kuo, T. W.; Hsu, Chia-Hsiu; Kakarla, D. Chandrasekhar; Tiwari, Ajay; Chou, M. C.; Patra, Atanu; Yanda, P.; Blundo, E.; Polimeni, A.; Sundaresan, A.; Chuang, F. C.; Yang, H. D.	Interplay of lattice, spin, and dipolar properties in CoTeMoO6: Emergence of Griffiths-like	PHYSICAL REVIEW B	105	2	24420	2022	1
阿卡德	Pal, Arkadeb; Kuo, T. W.; Hsu, Chia-Hsiu; Kakarla, D. Chandrasekhar; Tiwari, Ajay; Chou, M. C.; Patra, Atanu; Yanda, P.; Blundo, E.; Polimeni, A.; Sundaresan, A.; Chuang, F. C.; Yang, H. D.	Interplay of lattice, spin, and dipolar properties in CoTeMoO6: Emergence of Griffiths-like	PHYSICAL REVIEW B	105	2	24420	2022	1
郭政育	Satapathy, Kaushik; (中略); Kuo, Cheng-Yu; Lauer, Tod R.; Lee, Sang-Sung; Levis, Aviad; (後略)	The Variability of the Black Hole Image in M87 at the Dynamical Timescale	ASTROPHYSICAL JOURNAL	925	1	id.13, page 1-19	2022	1
楊弘敦	Alam, Mohd; Pal, Arkadeb; Anand, Khyati; Ghosh, Surajit; Tripathi, Saurabh; Singh, Ranjan K.; Ghosh, A. K.; Yang, H. D.; Chatterjee, Sandip	Relaxor-superparaelectric behaviour and crystal-field-driven spin-phonon coupling in pyrochlore Eu2Ti2O7	EPL	137	2	26003	2022	1

莊豐權	Pal, Arkadeb; Kuo, T. W.; Hsu, Chia-Hsiu; Kakarla, D. Chandrasekhar; Tiwari, Ajay; Chou, M. C.; Patra, Atanu; Yanda, P.; Blundo, E.; Polimeni, A.; Sundaresan, A.; Chuang, F. C.; Yang, H. D.	Interplay of lattice, spin, and dipolar properties in CoTeMoO6: Emergence of Griffiths-like	PHYSICAL REVIEW B	105	2	24420	2022	1
楊弘敦	Pal, Arkadeb; Kuo, T. W.; Hsu, Chia-Hsiu; Kakarla, D. Chandrasekhar; Tiwari, Ajay; Chou, M. C.; Patra, Atanu; Yanda, P.; Blundo, E.; Polimeni, A.; Sundaresan, A.; Chuang, F. C.; Yang, H. D.	Interplay of lattice, spin, and dipolar properties in CoTeMoO6: Emergence of Griffiths-like	PHYSICAL REVIEW B	105	2	24420	2022	1
黃旭明	Huang, Shiu-Ming; Wang, Pin-Cing; Chen, Pin-Cyuan; Hong, Jai-Long; Cheng, Cheng-Maw; Jian, Hao-Lun; Yan, You-Jih; Yu, Shih-Hsun; Chou, Mitch M. C.	The Singularity Paramagnetic Peak of Bi0.3Sb1.7Te3 with p-type Surface State	NANOSCALE RESEARCH LETTERS	17	1	12	2022	1
張鼎張	Chen, Jian-Jie; Chang, Ting-Chang; Hung, Yang-Hao; Zheng, Yu-Zhe; Kuo, Chuan-Wei; Lin, Shih-Kai; Wu, Pei-Yu; Tsai, Chia-	Gate Dielectric Leakage Reduction in Hard-Mask Defined and Dry-Etch Patterned Organic TFTs Devices	IEEE ELECTRON DEVICE LETTERS	43	1	48-51	2022	1
邱大維	Chen, Bo-Hung; Chiou, Dah-Wei	Response of the Unruh-DeWitt detector in a gravitational wave background	PHYSICAL REVIEW D	105	2		2022	1

狄米契	Giatahanas, Dimitrios; Pappas, Nikolaos; Toumbas, Nicolaos	Holographic observables at large d	PHYSICAL REVIEW D	105	2	26016(1-19)	2022	1
陳易馨	Su, Hsuan-Jui; Liou, Jia-You; Lin, I-Chun; Chen, Yi-Hsin	Optimizing the Rydberg EIT spectrum in a thermal vapor	OPTICS EXPRESS	30	2	1499-1510	2022	1
張鼎張	Ciou, Fong-Min; Chang, Yen-Cheng; Chen, Po-Hsun; Lin, Chien-Yu; Lin, Yun-Hsuan; Chen, Kuan-Hsu; Jin, Fu-Yuan; Lin, Yu-Shan; Hung, Wei-Chun; Chang, Kai-Chun; Kuo, Ting-Tzu; Yeh, Chien-Hung; Chang, Ting-Chang	Investigation of degradation mechanism after negative bias temperature stress in Si/SiGe channel metal-oxide-semiconductor capacitors induced by hydrogen diffusion	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	37	1	15009	2022	1