

## Fang-Cheng Chou

1. F. C. Chou\*(Chou, F.C.), Fundamental insights to topological quantum materials: A real-space view of 13 cases by supersymmetry of valence bonds approach, *Appl. Phys. Rev.*, 6, 011304 (2019)
2. H.W. Chen, Y.-W. Chen, J.-L. Kuo, Y. C. Lai, F. C. Chou(Chou, F.C.), C. H. Du & H. L. Liu, 2019, Spin-charge-lattice coupling in YBaCuFeO5: Optical properties and first-principles calculations, *Sci Rep*, 9, 3223. (2019)
3. Das, R (Das, Rajasree); Debnath, S (Debnath, Saikat); Rao, GN (Rao, G. Narsinga); Narasimhan, S (Narasimhan, Shobhana); Chou, FC (Chou, F. C.). “Ferrimagnetic cluster formation due to oxygen vacancies in CaFe<sub>2</sub>O<sub>4</sub>-delta”, *PHYSICAL REVIEW B* 98, 144404 (2018).
4. Sul, CC (Sul, Chih-Chuan); Lil, CS (Lil, Chi-Sheng); Wang, TC (Wang, Tzu-Cheng); Guan, SY (Guan, Syu-You); Sankar, R (Sankar, R.); Chou, FC (Chou, F.C.); Chang, CS (Chang, Chia-Sen); Lee, WL (Lee, Wei-Li); Guo, GY (Guo, Guang-Yu); Chuang, TM (Chuang, Tien-Ming). “Surface termination dependent quasiparticle scattering interference and magneto-transport study on ZrSiS”, *NEW J. PHYSICS* (2018).
5. Liou, SC (Liou, Sz-Chian); Chiou, WA (Chiou, Wen-An); Shu, GJ (Shu, Guo-Jiun Shu); Chou, FC (Chou, F.C.). “Microstructure of Thermoelectric Material - Pb<sub>1-x</sub>Sn<sub>x</sub>Se and PbSe”, *MICROSCOPY & MICROANALYSIS* 24, 2266-2267 (2018).
6. Hosen, MM (Hosen, M. Mofazzel); Dimitri, K (Dimitri, Klauss); Nandy, AK (Nandy, Ashis K.); Aperis, A (Aperis, Alex); Sankar, R (Sankar, Raman); Dhakal, G (Dhakal, Gyanendra); Maldonado, P (Maldonado, Pablo); Kabir, F (Kabir, Firoza); Sims, C (Sims, Christopher); Chou, FC (Chou, Fangcheng); Kaczorowski, D (Kaczorowski, Dariusz); Durakiewicz, T (Durakiewicz, Tomasz); Oppeneer, PM (Oppeneer, Peter M.); Neupane, M (Neupane, Madhab). “Distinct multiple fermionic states in a single topological metal”, *NATURE COMMUNICATIONS* 9, 3002 (2018)
7. Zhang, ZW (Zhang, Zhiwei); Sutarto, R (Sutarto, R.); He, F (He, F.); Chou, FC (Chou, F. C.); Udby, L (Udby, L.); Holm, SL (Holm, S. L.); Zhu, ZH (Zhu, Z. H.); Hines, WA (Hines, W. A.); Budnick, JI (Budnick, J. I.); Wells, BO (Wells, B. O.). “Nematicity and Charge Order in Superoxygenated La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4+y</sub>”, *PHYSICAL REVIEW LETTERS* 121, 067602 (2018).
8. Li, Y (Li, Yang); Wang, TM (Wang, Tianmeng); Wang, H (Wang, Han); Li, ZP (Li, Zhipeng); Chen, YW (Chen, Yanwen); West, D (West, Damien); Sankar, R (Sankar, Raman); Ulaganathan, RK (Ulaganathan, Rajesh K.); Chou, FC (Chou, Fangcheng); Wetzel, C (Wetzel, Christian); Xu, CY (Xu, Cheng-Yan); Zhang, SB (Zhang, Shengbai); Shi, SF (Shi, Su-Fei). “Enhanced Light Emission from the Ridge of Two-Dimensional InSe Flakes”, *NANO LETTERS* 18, 5078-5084 (2018).
9. Gao, S (Gao, Shang); Flicker, F (Flicker, Felix); Sankar, R (Sankar, Raman); Zhao, H (Zhao, He); Ren, Z (Ren, Zheng); Rachmilowitz, B (Rachmilowitz, Bryan); Balachandar, S (Balachandar, Sidhika); Chou, FC (Chou, Fangcheng); Burch, KS (Burch, Kenneth S.); Wang, ZQ (Wang, Ziqiang); van Wezel, J (van Wezel, Jasper); Zeljkovic, I (Zeljkovic, Ilija). “Atomic-scale strain manipulation of a charge density wave”, *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 115, 6986-6990 (2018).

10. Shu, GJ (Shu, G. J.); Tian, JC (Tian, J. C.); Lin, CK (Lin, C. K.); Hayashi, M (Hayashi, M.); Liou, SC (Liou, S. C.); Chen, WT (Chen, W. T.); Wong, DP (Wong, Deniz P.); Liou, HL (Liou, H. L.); Chou, FC (Chou, F. C.). “Reply to Comment on 'Oxygen vacancy-induced magnetic moment in edge-sharing CuO<sub>2</sub> chains of Li<sub>2</sub>CuO<sub>2</sub>-delta'”, NEW J. PHYSICS 20, 058002 (2018).
11. Shu, GJ (Shu, G. J.); Tian, JC (Tian, J. C.); Lin, CK (Lin, C. K.); Hayashi, M (Hayashi, M.); Liou, SC (Liou, S. C.); Chen, WT (Chen, W. T.); Wong, DP (Wong, Deniz P.); Liou, HL (Liou, H. L.); Chou, FC (Chou, F. C.). “Oxygen vacancy-induced magnetic moment in edge-sharing CuO<sub>2</sub> chains of Li<sub>2</sub>CuO<sub>2</sub>-delta”, NEW J. PHYSICS 20, 059501 (2018).
12. Huang, YT (Huang, Yu-Ting); Chen, YH (Chen, Yi-Hsun); Ho, YJ (Ho, Yi-Ju); Huang, SW (Huang, Shih-Wei); Chang, YR (Chang, Yih-Ren); Watanabe, K (Watanabe, Kenji); Taniguchi, T (Taniguchi, Takashi); Chiu, HC (Chiu, Hsiang-Chih); Liang, CT (Liang, Chi-Te); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Chen, CW (Chen, Chun-Wei); Wang, WH (Wang, Wei-Hua). “High-Performance InSe Transistors with Ohmic Contact Enabled by Nonrectifying Barrier-Type Indium Electrodes”, ACS APPLIED MATERIALS & INTERFACES 10, 33450-33456 (2018).
13. Xu, CQ (Xu, Chunqiang); Li, B (Li, Bin); Jiao, WH (Jiao, Wenhe); Zhou, W (Zhou, Wei); Qian, B (Qian, Bin); Sankar, R (Sankar, Raman); Zhigadlo, ND (Zhigadlo, Nikolai D.); Qi, YP (Qi, Yanpeng); Qian, D (Qian, Dong); Chou, FC (Chou, Fang-Cheng); Xu, XF (Xu, Xiaofeng). “Topological Type-II Dirac Fermions Approaching the Fermi Level in a Transition Metal Dichalcogenide NiTe<sub>2</sub>”, CHEMISTRY OF MATERIALS 30, 4823-4830 (2018).
14. Premasiri, K (Premasiri, Kasun); Radha, SK (Radha, Santosh Kumar); Sucharitakul, S (Sucharitakul, Sukrit); Kumar, UR (Kumar, U. Rajesh); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Chen, YT (Chen, Yit-Tsong); Gao, XPA (Gao, Xuan P. A.). “Tuning Rashba Spin-Orbit Coupling in Gated Multilayer InSe”, NANO LETTERS 18, 4403-4408 (2018).
15. Raghavan, CM (Raghavan, Chinnambedu Murugesan); Chen, TP (Chen, Tzu-Pei); Li, SS (Li, Shao-Sian); Chen, WL (Chen, Wei-Liang); Lo, CY (Lo, Chao-Yuan); Liao, YM (Liao, Yu-Ming); Haider, G (Haider, Golam); Lin, CC (Lin, Cheng-Chieh); Chen, CC (Chen, Chia-Chun); Sankar, R (Sankar, Raman); Chan, YM (Chan, Yu-Ming); Chou, FC (Chou, Fang-Cheng); Chen, CW (Chen, Chun-Wei). “Low-Threshold Lasing from 2D Homologous Organic-Inorganic Hybrid Ruddlesden-Popper Perovskite Single Crystals”, NANO LETTERS 18, 3221-3228 (2018).
16. Roth, S (Roth, S.); Lee, H (Lee, H.); Sterzi, A (Sterzi, A.); Zacchigna, M (Zacchigna, M.); Politano, A (Politano, A.); Sankar, R (Sankar, R.); Chou, FC (Chou, F. C.); Di Santo, G (Di Santo, G.); Petaccia, L (Petaccia, L.); Yazyev, OV (Yazyev, O., V); Crepaldi, A (Crepaldi, A.). “Reinvestigating the surface and bulk electronic properties of Cd<sub>3</sub>As<sub>2</sub>”, PHYSICAL REVIEW B 97, 165439 (2018).
17. Chen, WT (Chen, Wei-Tin); Wang, CW (Wang, Chin-Wei); Wu, HC (Wu, Hung-Cheng); Chou, FC (Chou, Fang-Cheng); Yang, HD (Yang, Hung-Duen); Simonov, A (Simonov, Arkadiy); Senn, MS (Senn, M. S.). “Improper ferroelectric polarization in a perovskite driven by intersite charge transfer and ordering”, PHYSICAL REVIEW B 97, 144102 (2018).
18. Sontu, UB (Sontu, Uday Bhasker); Rao, GN (Rao, Narsinga G.); Chou, FC (Chou, F. C.); Reddy, MVR (Reddy, V. Ramana M.). “Temperature dependent and applied field strength dependent magnetic study of cobalt nickel ferrite nanoparticles: Synthesized by an environmentally benign

method”, J. MAGNETISM AND MAGNETIC MATERIALS 452, 398-406 (2018).

19. Walkup, D (Walkup, Daniel); Assaf, BA (Assaf, Badih A.); Scipioni, KL (Scipioni, Kane L.); Sankar, R (Sankar, R.); Chou, FC (Chou, Fangcheng); Chang, GQ (Chang, Guoqing); Lin, H (Lin, Hsin); Zeljkovic, I (Zeljkovic, Ilija); Madhavan, V (Madhavan, Vidya). “Interplay of orbital effects and nanoscale strain in topological crystalline insulators”, NATURE COMMUNICATIONS 9, 1550 (2018).
20. Shu, GJ (Shu, G. J.); Liou, SC (Liou, S. C.); Karna, SK (Karna, S. K.); Sankar, R (Sankar, R.); Hayashi, M (Hayashi, M.); Chou, FC (Chou, F. C.). “Dynamic surface electronic reconstruction as symmetry-protected topological orders in topological insulator Bi<sub>2</sub>Se<sub>3</sub>”, PHYSICAL REVIEW MATERIALS 2, 02240 (2018).
21. Kuo, CN (Kuo, C. N.); Chen, WT (Chen, W. T.); Tseng, CW (Tseng, C. W.); Hsu, CJ (Hsu, C. J.); Huang, RY (Huang, R. Y.); Chou, FC (Chou, F. C.); Kuo, YK (Kuo, Y. K.); Lue, CS (Lue, C. S.). “Evidence for a second-order phase transition around 350 K in Ce<sub>3</sub>Rh<sub>4</sub>Sn<sub>13</sub>”, PHYSICAL REVIEW B 97, 094101 (2018).
22. Muthuselvam, IP (Muthuselvam, I. Panneer); Sankar, R (Sankar, R.); Rao, GN (Rao, G. Narsinga); Karna, SK (Karna, Sunil K.); Chou, FC (Chou, F. C.). “Ferromagnetic nature in low-dimensional S=1 antiferromagnetic Li<sub>2</sub>Ni(WO<sub>4</sub>)<sub>2</sub> nanoparticles”, J. MAGNETISM & MAGNETIC MATERIALS 449, 83-87 (2018)
23. Ling, JW (Ling, Jiwei); Liu, YW (Liu, Yanwen); Jin, Z (Jin, Zhao); Huang, S (Huang, Sha); Wang, WY (Wang, Weiyi); Zhang, C (Zhang, Cheng); Yuan, X (Yuan, Xiang); Liu, SS (Liu, Shanshan); Zhang, EZ (Zhang, Enze); Huang, C (Huang, Ce); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Xia, ZC (Xia, Zhengcai); Xiu, FX (Xiu, Faxian). “Two-dimensional transport and strong spin-orbit interaction in SrMnSb<sub>2</sub>”, CHINESE PHYSICS B 27, 017504 (2018).
24. Sankar, R (Sankar, Raman); Peramaiyan, G (Peramaiyan, G.); Muthuselvam, IP (Muthuselvam, I. Panneer); Wen, CY (Wen, Cheng-Yen); Xu, XF (Xu, Xiaofeng); Chou, FC (Chou, F. C.). “Superconductivity in a Misfit Layered (SnS)<sub>(1.15)</sub>(TaS<sub>2</sub>) Compound”, CHEMISTRY OF MATERIALS 30, 1373-1378 (2018).
25. Sankar, R (Sankar, Raman); Peramaiyan, G (Peramaiyan, G.); Muthuselvam, IP (Muthuselvam, I. Panneer); Xu, SY (Xu, Suyang); Hasan, MZ (Hasan, M. Zahid); Chou, FC (Chou, F. C.). “Crystal growth and transport properties of Weyl semimetal TaAs”, J. PHYSICS-CONDENSED MATTER 30, 015803 (2017).
26. Butler, CJ (Butler, Christopher J.); Wu, YM (Wu, Yu-Mi); Hsing, CR (Hsing, Cheng-Rong); Tseng, Y (Tseng, Yi); Sankar, R (Sankar, Raman); Wei, CM (Wei, Ching-Ming); Chou, FC (Chou, Fang-Cheng); Lin, MT (Lin, Minn-Tsong). “Quasiparticle interference in ZrSiS: Strongly band-selective scattering depending on impurity lattice site”, PHYSICAL REVIEW B 96, 195125 (2017).
27. Xu, CQ (Xu, C. Q.); Sankar, R (Sankar, R.); Zhou, W (Zhou, W.); Li, B (Li, Bin); Han, ZD (Han, Z. D.); Qian, B (Qian, B.); Dai, JH (Dai, J. H.); Cui, HB (Cui, Hengbo); Bangura, AF (Bangura, A. F.); Chou, FC (Chou, F. C.); Xu, XF (Xu, Xiaofeng). “Topological phase transition under pressure in the topological nodal-line superconductor PbTaSe<sub>2</sub>”, PHYSICAL REVIEW B 96, 064528 (2017).

28. Chang, YR (Chang, Yih-Ren); Ho, PH (Ho, Po-Hsun); Wen, CY (Wen, Cheng-Yen); Chen, TP (Chen, Tzu-Pei); Li, SS (Li, Shao-Sian); Wang, JY (Wang, Jhe-Yi); Li, MK (Li, Min-Ken); Tsai, CA (Tsai, Che-An); Sankar, R (Sankar, Raman); Wang, WH (Wang, Wei-Hua); Chiu, PW (Chiu, Po-Wen); Chou, FC (Chou, Fang-Cheng); Chen, CW (Chen, Chun-Wei). “Surface Oxidation Doping to Enhance Photogenerated Carrier Separation Efficiency for Ultrahigh Gain Indium Selenide Photodetector”, ACS PHOTONICS 4, 2930-2936 (2017).
29. Hirai, S (Hirai, Shigeto); Yagi, S (Yagi, Shunsuke); Chen, WT (Chen, Wei-Tin); Chou, FC (Chou, Fang-Cheng); Okazaki, N (Okazaki, Noriyasu); Ohno, T (Ohno, Tomoya); Suzuki, H (Suzuki, Hisao); Matsuda, T (Matsuda, Takeshi). “Non-Fermi Liquids as Highly Active Oxygen Evolution Reaction Catalysts”, ADVANCED SCIENCE 4, 1700176 (2017).
30. Jia, X (Jia, Xun); Zhang, SY (Zhang, Shuyuan); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Wang, WH (Wang, Weihua); Kempa, K (Kempa, K.); Plummer, EW (Plummer, E. W.); Zhang, JD (Zhang, Jiandi); Zhu, XT (Zhu, Xuetao); Guo, JD (Guo, Jiandong). “Anomalous Acoustic Plasmon Mode from Topologically Protected States”, PHYSICAL REVIEW LETTERS 119, 136805 (2017).
31. Vinoth, S (Vinoth, S.); Balaganapathi, T (Balaganapathi, T.); KaniAmuthan, B (KaniAmuthan, B.); Arun, T (Arun, T.); Muthuselvam, IP (Muthuselvam, I. Panneer); Chou, FC (Chou, Fang-Cheng); Thilakan, P (Thilakan, P.). “Bi<sub>2</sub>Te<sub>3</sub> thin hexagonal nanoplatelets: Synthesis and its characterization studies”, PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES 92, 17-22 (2017).
32. Lin, CY (Lin, Chang-Yu); Ulaganathan, RK (Ulaganathan, Rajesh Kumar); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng). “Ambipolar field-effect transistors by few-layer InSe with asymmetry contact metals”, AIP ADVANCES 7, 075314 (2017).
33. Qi, YP (Qi, Yanpeng); Shi, WJ (Shi, Wujun); Naumov, PG (Naumov, Pavel G.); Kumar, N (Kumar, Nitesh); Sankar, R (Sankar, Raman); Schnelle, W (Schnelle, Walter); Shekhar, C (Shekhar, Chandra); Chou, FC (Chou, Fang-Cheng); Felser, C (Felser, Claudia); Yan, BH (Yan, Binghai); Medvedev, SA (Medvedev, Sergey A.). “Topological Quantum Phase Transition and Superconductivity Induced by Pressure in the Bismuth Tellurohalide BiTeI”, ADVANCES MATERIALS 29, 1605965 (2017).
34. Gandhi, AC (Gandhi, Ashish Chhaganlal); Das, R (Das, Rajasree); Chou, FC (Chou, Fang-Cheng); Lin, JG (Lin, Jauyn Grace). “Magnetocrystalline two-fold symmetry in CaFe<sub>2</sub>O<sub>4</sub> single crystal”, J. PHYSICS-CONDENSED MATTER 29, 175802 (2017).
35. Sharafeev, A (Sharafeev, A.); Gnezdilov, V (Gnezdilov, V.); Sankar, R (Sankar, R.); Chou, FC (Chou, F. C.); Lemmens, P (Lemmens, P.). “Optical phonon dynamics and electronic fluctuations in the Dirac semimetal Cd<sub>3</sub>As<sub>2</sub>”, PHYSICAL REVIEW B 95, 235148 (2017).
36. Wilson, MN (Wilson, M. N.); Hallas, AM (Hallas, A. M.); Cai, Y (Cai, Y.); Guo, S (Guo, S.); Gong, Z (Gong, Z.); Sankar, R (Sankar, R.); Chou, FC (Chou, F. C.); Uemura, YJ (Uemura, Y. J.); Luke, GM (Luke, G. M.). “ $\mu$ SR study of the noncentrosymmetric superconductor PbTaSe<sub>2</sub>”, PHYSICAL REVIEW B 95, 224506 (2017).
37. Koteswararao, B (Koteswararao, B.); Khuntia, P (Khuntia, P.); Kumar, R (Kumar, R.); Mahajan, AV (Mahajan, A. V.); Yogi, A (Yogi, Arvind); Baenitz, M (Baenitz, M.); Skourski, Y (Skourski, Y.); Chou, FC (Chou, F. C.). “Bose-Einstein condensation of triplons in the S=1 tetramer antiferromagnet K<sub>2</sub>Ni<sub>2</sub>(MoO<sub>4</sub>)(<sub>3</sub>): A compound close to a quantum critical point”, PHYSICAL

38. Murugan, GS (Murugan, G. Senthil); Chen, PJ (Chen, P. J.); Sankar, R (Sankar, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Rao, GN (Rao, G. Narsinga); Chou, FC (Chou, F. C.). “Antiferromagnetism of  $\text{Li}_2\text{Cu}_5\text{Si}_4\text{O}_{14}$  with alternating dimers and trimers in chains”, *PHYSICAL REVIEW B* 95, 174442 (2017).
39. Hosen, MM (Hosen, M. Mofazzel); Dimitri, K (Dimitri, Klauss); Belopolski, I (Belopolski, Ilya); Maldonado, P (Maldonado, Pablo); Sankar, R (Sankar, Raman); Dhakal, N (Dhakal, Nagendra); Dhakal, G (Dhakal, Gyanendra); Cole, T (Cole, Taiason); Oppeneer, PM (Oppeneer, Peter M.); Kaczorowski, D (Kaczorowski, Dariusz); Chou, FC (Chou, Fangcheng); Hasan, MZ (Hasan, M. Zahid); Durakiewicz, T (Durakiewicz, Tomasz); Neupane, M (Neupane, Madhab). “Tunability of the topological nodal-line semimetal phase in  $\text{ZrSiX}$ -type materials ( $X = \text{S, Se, Te}$ )”, *PHYSICAL REVIEW B* 95, 161101 (2017).
40. Butler, CJ (Butler, Christopher J.); Tseng, Y (Tseng, Yi); Hsing, CR (Hsing, Cheng-Rong); Wu, YM (Wu, Yu-Mi); Sankar, R (Sankar, Raman); Wang, MF (Wang, Mei-Fang); Wei, CM (Wei, Ching-Ming); Chou, FC (Chou, Fang-Cheng); Lin, MT (Lin, Minn-Tsong). “Observation of surface superstructure induced by systematic vacancies in the topological Dirac semimetal  $\text{Cd}_3\text{As}_2$ ”, *PHYSICAL REVIEW B* 95, 159906 (2017).
41. Gautam, K (Gautam, K.); Shukla, DK (Shukla, D. K.); Francoual, S (Francoual, S.); Bednarcik, J (Bednarcik, J.); Mardegan, JRL (Mardegan, J. R. L.); Liermann, HP (Liermann, H. -P.); Sankar, R (Sankar, R.); Chou, FC (Chou, F. C.); Phase, DM (Phase, D. M.); Stremper, J (Stremper, J.). “Large negative thermal expansion in the cubic phase of  $\text{CaMn}_7\text{O}_{12}$ ”, *PHYSICAL REVIEW B* 95, 144112 (2017).
42. Ou-Yang, TY (Ou-Yang, T. Y.); Zhuang, YC (Zhuang, Y. C.); Ramachandran, B (Ramachandran, B.); Chen, WT (Chen, W. T.); Shu, GJ (Shu, G. J.); Hu, CD (Hu, C. D.); Chou, FC (Chou, F. C.); Kuo, YK (Kuo, Y. K.). “Effect of Co substitution on thermoelectric properties of  $\text{FeSi}$ ”, *J. ALLOYS AND COMPOUNDS* 702, 92-98 (2017).
43. Lai, YC (Lai, Yen-Chung); Du, CH (Du, Chao-Hung); Lai, CH (Lai, Chun-Hao); Liang, YH (Liang, Yu-Hui); Wang, CW (Wang, Chin-Wei); Rule, KC (Rule, Kirrily C.); Wu, HC (Wu, Hung-Cheng); Yang, HD (Yang, Hung-Duen); Chen, WT (Chen, Wei-Tin); Shu, GJ (Shu, G. J.); Chou, FC (Chou, F-C). “Magnetic ordering and dielectric relaxation in the double perovskite  $\text{YBaCuFeO}_5$ ”, *J. PHYSICS-CONDENSED MATTER* 29, 145801 (2017).
44. Hsieh, SH (Hsieh, S. H.); Solanki, RS (Solanki, R. S.); Wang, YF (Wang, Y. F.); Shao, YC (Shao, Y. C.); Lee, SH (Lee, S. H.); Yao, CH (Yao, C. H.); Du, CH (Du, C. H.); Wang, HT (Wang, H. T.); Chiou, JW (Chiou, J. W.); Chin, YY (Chin, Y. Y.); Tsai, HM (Tsai, H. M.); Chen, JL (Chen, J-L); Pao, CW (Pao, C. W.); Cheng, CM (Cheng, C-M); Chen, WC (Chen, W-C); Lin, HJ (Lin, H. J.); Lee, JF (Lee, J. F.); Chou, FC (Chou, F. C.); Pong, WF (Pong, W. F.). “Anisotropy in the thermal hysteresis of resistivity and charge density wave nature of single crystal  $\text{SrFeO}_3$ -delta: X-ray absorption and photoemission studies”, *SCIENTIFIC REPORTS* 7, 161 (2017).
45. Karna, SK (Karna, Sunil K.); Zhao, Y (Zhao, Y.); Sankar, R (Sankar, R.); Avdeev, M (Avdeev, M.); Tseng, PC (Tseng, P. C.); Wang, W (Wang, W.); Shu, GJ (Shu, G. J.); Matan, K (Matan, K.); Guo, GY (Guo, G. Y.); Chou, FC (Chou, F. C.). “Sodium layer chiral distribution and spin structure of  $\text{Na}_2\text{Ni}_2\text{TeO}_6$  with a Ni honeycomb lattice”, *PHYSICAL REVIEW B* 95, 104408 (2017).

46. Huang, SH (Huang, S. H.); Shu, GJ (Shu, G. J.); Pai, WW (Pai, Woei Wu); Liu, HL (Liu, H. L.); Chou, FC (Chou, F. C.). “Tunable Se vacancy defects and the unconventional charge density wave in 1T-TiSe<sub>2</sub>-delta”, *PHYSICAL REVIEW B* 95, 045310 (2017).
47. Sankar, R (Sankar, Raman); Rao, GN (Rao, G. Narsinga); Muthuselvam, IP (Muthuselvam, I. Panneer); Butler, C (Butler, Christopher); Kumar, N (Kumar, Nitesh); Murugan, GS (Murugan, G. Senthil); Shekhar, C (Shekhar, Chandra); Chang, TR (Chang, Tay-Rong); Wen, CY (Wen, Cheng-Yen); Chen, CW (Chen, Chun-Wei); Lee, WL (Lee, Wei-Li); Lin, MT (Lin, M. -T.); Jeng, HT (Jeng, Horng-Tay); Felser, C (Felser, Claudia); Chou, FC (Chou, F. C.). “Polymorphic Layered MoTe<sub>2</sub> from Semiconductor, Topological Insulator, to Weyl Semimetal”, *CHEMISTRY OF MATERIALS* 29, 699-707 (2017).
48. Sankar, R (Sankar, Raman); Peramaiyan, G (Peramaiyan, G.); Muthuselvam, IP (Muthuselvam, I. Panneer); Butler, CJ (Butler, Christopher J.); Dimitri, K (Dimitri, Klauss); Neupane, M (Neupane, Madhab); Rao, GN (Rao, G. Narsinga); Lin, MT (Lin, M. -T.); Chou, FC (Chou, F. C.). “Crystal growth of Dirac semimetal ZrSiS with high magnetoresistance and mobility”, *SCIENTIFIC REPORTS* 7, 40603 (2017).
49. Wang, Y (Wang, Ying); Luo, GY (Luo, Guoyu); Liu, JW (Liu, Junwei); Sankar, R (Sankar, R.); Wang, NL (Wang, Nan-Lin); Chou, FC (Chou, Fangcheng); Fu, L (Fu, Liang); Li, ZQ (Li, Zhiqiang). “Observation of ultrahigh mobility surface states in a topological crystalline insulator by infrared spectroscopy”, *NATURE COMMUNICATIONS* 8, 82 (2017).
50. Dai, WQ (Dai, Wenqing); Richardella, A (Richardella, Anthony); Du, RZ (Du, Renzhong); Zhao, WW (Zhao, Weiwei); Liu, X (Liu, Xin); Liu, CX (Liu, C. X.); Huang, SH (Huang, Song-Hsun); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fangcheng); Samarth, N (Samarth, Nitin); Li, Q (Li, Qi). “Proximity-effect-induced Superconducting Gap in Topological Surface States - A Point Contact Spectroscopy Study of NbSe<sub>2</sub>/Bi<sub>2</sub>Se<sub>3</sub> Superconductor-Topological Insulator Heterostructures”, *SCIENTIFIC REPORTS* 7, 7631 (2017).
51. Sankar, R (Sankar, Raman); Rao, GN (Rao, G. Narsinga); Muthuselvam, IP (Muthuselvam, I. Panneer); Chang, TR (Chang, Tay-Rong); Jeng, HT (Jeng, H. T.); Murugan, GS (Murugan, G. Senthil); Lee, WL (Lee, Wei-Li); Chou, FC (Chou, F. C.). “Anisotropic superconducting property studies of single crystal PbTaSe<sub>2</sub>”, *J. PHYSICS-CONDENSED MATTER* 29, 095601 (2017).
52. Selvadurai, APB (Selvadurai, A. Paul Blessington); Pazhanivelu, V (Pazhanivelu, V.); Jagadeeshwaran, C (Jagadeeshwaran, C.); Murugaraj, R (Murugaraj, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Chou, FC (Chou, F. C.); Gazzali, PMM (Gazzali, P. M. Md); Chandrasekaran, G (Chandrasekaran, G.). “Structural, magnetic and electrical analysis of La<sub>1-x</sub>Nd(x)CrO<sub>3</sub> (0.00 < x < 0.15): synthesised by sol-gel citrate combustion method”, *J. SOL-GEL SCIENCE AND TECHNOLOGY* 80, 827-839 (2016).
53. Jeon, BG (Jeon, Byung-Gu); Koteswararao, B (Koteswararao, B.); Park, CB (Park, C. B.); Shu, GJ (Shu, G. J.); Riggs, SC (Riggs, S. C.); Moon, EG (Moon, E. G.); Chung, SB (Chung, S. B.); Chou, FC (Chou, F. C.); Kim, KH (Kim, Kee Hoon). “Giant suppression of phononic heat transport in a quantum magnet BiCu<sub>2</sub>PO<sub>6</sub>”, *SCIENTIFIC REPORTS* 6, 36970 (2016).
54. Neupane, M (Neupane, Madhab); Alidoust, N (Alidoust, Nasser); Hosen, MM (Hosen, M. Mofazzel); Zhu, JX (Zhu, Jian-Xin); Dimitri, K (Dimitri, Klauss); Xu, SY (Xu, Su-Yang); Dhakal, N (Dhakal, Nagendra); Sankar, R (Sankar, Raman); Belopolski, I (Belopolski, Ilya); Sanchez, DS (Sanchez, Daniel S.); Chang, TR (Chang, Tay-Rong); Jeng, HT (Jeng, Horng-Tay); Miyamoto, K (Miyamoto, Koji); Okuda, T (Okuda, Taichi); Lin, H (Lin, Hsin); Bansil, A

- (Bansil, Arun); Kaczorowski, D (Kaczorowski, Dariusz); Chou, FC (Chou, Fangcheng); Hasan, MZ (Hasan, M. Zahid); Durakiewicz, T (Durakiewicz, Tomasz). “Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd”, NATURE COMMUNICATIONS 7, 13315 (2016).
55. Guan, SY (Guan, Syu-You); Chen, PJ (Chen, Peng-Jen); Chu, MW (Chu, Ming-Wen); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fangcheng); Jeng, HT (Jeng, Horng-Tay); Chang, CS (Chang, Chia-Seng); Chuang, TM (Chuang, Tien-Ming). “Superconducting topological surface states in the noncentrosymmetric bulk superconductor PbTaSe<sub>2</sub>”, SCIENTIFIC ADVANCES 2, e1600894 (2016).
  56. Wu, KK (Wu, K. K.); Ramachandran, B (Ramachandran, B.); Kuo, YK (Kuo, Y. K.); Sankar, R (Sankar, R.); Chou, FC (Chou, F. C.). “Influence of induced defects on transport properties of the Bridgman-grown Bi<sub>2</sub>Se<sub>3</sub>-based single crystals”, J. ALLOYS AND COMPOUNDS 682, 225-231 (2016).
  57. Lee, SH (Lee, S. H.); Frawley, TW (Frawley, T. W.); Yao, CH (Yao, C. H.); Lai, YC (Lai, Y. C.); Du, CH (Du, Chao-Hung); Hatton, PD (Hatton, P. D.); Wang, MJ (Wang, M. J.); Chou, FC (Chou, F. C.); Huang, DJ (Huang, D. J.). “Charge and spin coupling in magnetoresistive oxygen-vacancy strontium ferrate SrFeO<sub>3</sub>-delta”, NEW J. PHYSICS 18, 093033 (2016).
  58. Pazhanivelu, V (Pazhanivelu, V.); Selvadurai, APB (Selvadurai, A. Paul Blessington); Murugaraj, R (Murugaraj, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Chou, FC (Chou, F. C.). “Influence of Co ions doping in structural, vibrational, optical and magnetic properties of ZnO nanoparticles”, J. MATERIALS SCIENCES-MATERIALS IN ELECTRONICS 27, 8580-8589 (2016).
  59. Huang, SX (Huang, S. X.); Chen, F (Chen, Fei); Kang, J (Kang, Jian); Zang, JD (Zang, Jiadong); Shu, GJ (Shu, G. J.); Chou, FC (Chou, F. C.); Chien, CL (Chien, C. L.). “Unusual magnetoresistance in cubic B20 Fe<sub>0.85</sub>Co<sub>0.15</sub>Si chiral magnets”, NEW J. PHYSICS 18, 065010 (2016).
  60. Chang, TR (Chang, Tay-Rong); Chen, PJ (Chen, Peng-Jen); Bian, G (Bian, Guang); Huang, SM (Huang, Shin-Ming); Zheng, H (Zheng, Hao); Neupert, T (Neupert, Titus); Sankar, R (Sankar, Raman); Xu, SY (Xu, Su-Yang); Belopolski, I (Belopolski, Ilya); Chang, GQ (Chang, Guoqing); Wang, BK (Wang, BaoKai); Chou, FC (Chou, Fangcheng); Bansil, A (Bansil, Arun); Jeng, HT (Jeng, Horng-Tay); Lin, H (Lin, Hsin); Hasan, MZ (Hasan, M. Zahid). “Topological Dirac surface states and superconducting pairing correlations in PbTaSe<sub>2</sub>”, PHYSICAL REVIEW B 93, 245130 (2016).
  61. Guo, ST (Guo, Shih-Ting); Sankar, R (Sankar, R.); Chien, YY (Chien, Yung-Yu); Chang, TR (Chang, Tay-Rong); Jeng, HT (Jeng, Horng-Tay); Guo, GY (Guo, Guang-Yu); Chou, FC (Chou, F. C.); Lee, WL (Lee, Wei-Li). “Large transverse Hall-like signal in topological Dirac semimetal Cd<sub>3</sub>As<sub>2</sub>”, SCIENTIFIC REPORTS 6, 27487 (2016).
  62. Shu, GJ (Shu, G. J.); Chou, FC (Chou, F. C.). “Ferrimagnetic ordering and spin entropy of field-dependent intermediate spins in Na<sub>0.82</sub>CoO<sub>2</sub>”, PHYSICAL REVIEW B 93, 140402 (2016).
  63. Khuntia, P (Khuntia, P.); Bert, F (Bert, F.); Mendels, P (Mendels, P.); Koteswararao, B (Koteswararao, B.); Mahajan, AV (Mahajan, A. V.); Baenitz, M (Baenitz, M.); Chou, FC (Chou, F. C.); Baines, C (Baines, C.); Amato, A (Amato, A.); Furukawa, Y (Furukawa, Y.). “Spin Liquid State in the 3D Frustrated Antiferromagnet PbCuTe<sub>2</sub>O<sub>6</sub>: NMR and Muon Spin

Relaxation Studies”, PHYSICAL REVIEW LETTERS 116, 107203 (2016).

64. Neupane, M (Neupane, Madhab); Ishida, Y (Ishida, Yukiaki); Sankar, R (Sankar, Raman); Zhu, JX (Zhu, Jian-Xin); Sanchez, DS (Sanchez, Daniel S.); Belopolski, I (Belopolski, Ilya); Xu, SY (Xu, Su-Yang); Alidoust, N (Alidoust, Nasser); Hosen, MM (Hosen, M. Mofazzel); Shin, S (Shin, Shik); Chou, FC (Chou, Fangcheng); Hasan, MZ (Hasan, M. Zahid); Durakiewicz, T (Durakiewicz, Tomasz). “Electronic structure and relaxation dynamics in a superconducting topological material”, SCIENTIFIC REPORTS 6, 22557 (2016).
65. Koteswararao, B (Koteswararao, B.); Yoo, K (Yoo, Kyongjun); Chou, FC (Chou, F. C.); Kim, KH (Kim, Kee Hoon). “Observation of magnetoelectric effects in a  $S=1/2$  frustrated spin chain magnet SrCuTe<sub>2</sub>O<sub>6</sub>”, APL MATERIALS 4, 036101 (2016).
66. Plumb, KW (Plumb, K. W.); Hwang, K (Hwang, Kyusung); Qiu, Y (Qiu, Y.); Harriger, LW (Harriger, Leland W.); Granroth, GE (Granroth, G. E.); Kolesnikov, AI (Kolesnikov, Alexander I.); Shu, GJ (Shu, G. J.); Chou, FC (Chou, F. C.); Ruegg, C (Ruegg, Ch.); Kim, YB (Kim, Yong Baek); Kim, YJ (Kim, Young-June). “Quasiparticle-continuum level repulsion in a quantum magnet”, NATURE PHYSICS 12, 224 (2016).
67. Rao, GN (Rao, G. Narsinga); Sankar, R (Sankar, R.); Singh, A (Singh, Akansha); Muthuselvam, IP (Muthuselvam, I. Panneer); Chen, WT (Chen, W. T.); Singh, VN (Singh, Viveka Nand); Guo, GY (Guo, Guang-Yu); Chou, FC (Chou, F. C.). “Tellurium-bridged two-leg spin ladder in Ba<sub>2</sub>CuTeO<sub>6</sub>”, PHYSICAL REVIEW B 93, 104401 (2016).
68. Bian, G (Bian, Guang); Chang, TR (Chang, Tay-Rong); Sankar, R (Sankar, Raman); Xu, SY (Xu, Su-Yang); Zheng, H (Zheng, Hao); Neupert, T (Neupert, Titus); Chiu, CK (Chiu, Ching-Kai); Huang, SM (Huang, Shin-Ming); Chang, GQ (Chang, Guoqing); Belopolski, I (Belopolski, Ilya); Sanchez, DS (Sanchez, Daniel S.); Neupane, M (Neupane, Madhab); Alidoust, N (Alidoust, Nasser); Liu, C (Liu, Chang); Wang, BK (Wang, BaoKai); Lee, CC (Lee, Chi-Cheng); Jeng, HT (Jeng, Horng-Tay); Zhang, CL (Zhang, Chenglong); Yuan, ZJ (Yuan, Zhujun); Jia, S (Jia, Shuang); Bansil, A (Bansil, Arun); Chou, FC (Chou, Fangcheng); Lin, H (Lin, Hsin); Hasan, MZ (Hasan, M. Zahid). “Topological nodal-line fermions in spin-orbit metal PbTaSe<sub>2</sub>”, NATURE COMMUNICATIONS 7, 10556 (2016).
69. Huang, CH (Huang, Chih-Hsiung); Fan, ST (Fan, Sheng-Ting); Chen, PS (Chen, Pin-Shiang); Sankar, R (Sankar, Raman); Chou, FC (Chou, F. C.); Liu, CW (Liu, C. W.). “Atomically Flat Metal-Insulator-Metal Capacitors with Enhanced Linearity”, 2016 IEEE SILICON NANO-ELECTRONICS WORKSHOP (SNW) 60-61 (2016).
70. Veerakumar, P (Veerakumar, Pitchaimani); Muthuselvam, IP (Muthuselvam, Irulandi Panneer); Hung, CT (Hung, Chin-Te); Lin, KC (Lin, King-Chuen); Chou, FC (Chou, Fang-Cheng); Liu, SB (Liu, Shang-Bin). “Biomass-Derived Activated Carbon Supported Fe<sub>3</sub>O<sub>4</sub> Nanoparticles as Recyclable Catalysts for Reduction of Nitroarenes”, ACS SUSTAINABLE CHEMISTRY & ENGINEERING 4, 6772-6782 (2016).
71. Liu, WC (Liu, Wen-Chung); Zheng, YZ (Zheng, Yu-Zhan); Chih, YC (Chih, Yu-Chieh); Lai, YC (Lai, Yen-Chung); Tsai, YW (Tsai, Yi-Wei); Zheng, YZ (Zheng, Yan-Zong); Du, CH (Du, Chao-Hung); Chou, FC (Chou, Fang-Cheng); Soo, YL (Soo, Yun-Liang); Chang, SL (Chang, Shih-Lin). “X-ray multi-beam resonant diffraction analysis of crystal symmetry for layered perovskite YBaCuFeO<sub>5</sub>”, J. APPLIED CRYSTALLOGRAPHY 49, 1721-1725 (2016).
72. Butler, CJ (Butler, Christopher John); Yang, PY (Yang, Po-Ya); Sankar, R (Sankar, Raman); Lien, YN (Lien, Yen-Neng); Lu, CI (Lu, Chun-, I); Chang, LY (Chang, Luo-Yueh); Chen, CH



(Chen, Chia-Hao); Wei, CM (Wei, Ching-Ming); Chou, FC (Chou, Fang-Cheng); Lin, MT (Lin, Minn-Tsong). “Quasiparticle Scattering in the Rashba Semiconductor BiTeBr: The Roles of Spin and Defect Lattice Site”, ACS NANO 10, 9361-9369 (2016).

73. Perumal, P (Perumal, Packiyaraj); Ulaganathan, RK (Ulaganathan, Rajesh Kumar); Sankar, R (Sankar, Raman); Liao, YM (Liao, Yu-Ming); Sun, TM (Sun, Tzu-Min); Chu, MW (Chu, Ming-Wen); Chou, FC (Chou, Fang Cheng); Chen, YT (Chen, Yit-Tsong); Shih, MH (Shih, Min-Hsiung); Chen, YF (Chen, Yang-Fang). “Ultra-Thin Layered Ternary Single Crystals [Sn(S<sub>x</sub>Se<sub>1-x</sub>)(2)] with Bandgap Engineering for High Performance Phototransistors on Versatile Substrates”, ADVANCED FUNCTIONAL MATERIALS 26, 3630-3638 (2016).
74. Ho, PH (Ho, Po-Hsun); Li, MK (Li, Min-Ken); Sankar, R (Sankar, Raman); Shih, FY (Shih, Fu-Yu); Li, SS (Li, Shao-Sian); Chang, YR (Chang, Yih-Ren); Wang, WH (Wang, Wei-Hua); Chou, FC (Chou, Fang-Cheng); Chen, CW (Chen, Chun-Wei). “Tunable Photoinduced Carrier Transport of a Black Phosphorus Transistor with Extended Stability Using a Light-Sensitized Encapsulated Layer”, ACS PHOTONICS 3, 1102-1108 (2016).
75. Yeh, YC (Yeh, Yun-Chieh); Ho, PH (Ho, Po-Hsun); Wen, CY (Wen, Cheng-Yen); Shu, GJ (Shu, Guo-Jiun); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Chen, CW (Chen, Chun-Wei). “Growth of the Bi<sub>2</sub>Se<sub>3</sub> Surface Oxide for Metal-Semiconductor-Metal Device Applications”, J. PHYSICAL CHEMISTRY C 120, 3314-3318 (2016).
76. Sucharitakul, S (Sucharitakul, Sukrit); Kumar, UR (Kumar, U. Rajesh); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Chen, YT (Chen, Yit-Tsong); Wang, CH (Wang, Chuhan); He, C (He, Cai); He, R (He, Rui); Gao, XPA (Gao, Xuan P. A.). “Screening limited switching performance of multilayer 2D semiconductor FETs: the case for SnS”, NANOSCALE 8, 19050-19057 (2016).
77. Li, SS (Li, Shao-Sian); Chang, CH (Chang, Chi-Huang); Wang, YC (Wang, Ying-Chiao); Lin, CW (Lin, Chung-Wei); Wang, DY (Wang, Di-Yan); Lin, JC (Lin, Jou-Chun); Chen, CC (Chen, Chia-Chun); Sheu, HS (Sheu, Hwo-Shuenn); Chia, HC (Chia, Hao-Chung); Wu, WR (Wu, Wei-Ru); Jeng, US (Jeng, U-Ser); Liang, CT (Liang, Chi-Te); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Chen, CW (Chen, Chun-Wei). “Intermixing-seeded growth for high-performance planar heterojunction perovskite solar cells assisted by precursor-capped nanoparticles”, ENERGY & ENVIRONMENTAL SCIENCE 9, 1282-1289 (2016).
78. Ulaganathan, RK (Ulaganathan, Rajesh Kumar); Lu, YY (Lu, Yi-Ying); Kuo, CJ (Kuo, Chia-Jung); Tamalampudi, SR (Tamalampudi, Srinivasa Reddy); Sankar, R (Sankar, Raman); Boopathi, KM (Boopathi, Karunakara Moorthy); Anand, A (Anand, Ankur); Yadav, K (Yadav, Kanchan); Mathew, RJ (Mathew, Roshan Jesus); Liu, CR (Liu, Chia-Rung); Chou, FC (Chou, Fang Cheng); Chen, YT (Chen, Yit-Tsong). “High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors”, NANOSCALE 8, 2284-2292 (2016).
79. Das, R (Das, Rajasree); Karna, S (Karna, Sunil); Lai, YC (Lai, Yen-Chung); Chou, FC (Chou, Fang-Cheng). “Self-Adjusted Traveling Solvent Floating Zone Growth of Single Crystal CaFe<sub>2</sub>O<sub>4</sub>”, CRYSTAL GROWTH & DESIGN 16, 499-503 (2016).
80. Neupane, M (Neupane, Madhab); Belopolski, I (Belopolski, Ilya); Hosen, MM (Hosen, M. Mofazzel); Sanchez, DS (Sanchez, Daniel S.); Sankar, R (Sankar, Raman); Szlawska, M (Szlawska, Maria); Xu, SY (Xu, Su-Yang); Dimitri, K (Dimitri, Klauss); Dhakal, N (Dhakal, Nagendra); Maldonado, P (Maldonado, Pablo); Oppeneer, PM (Oppeneer, Peter M.); Kaczorowski, D (Kaczorowski, Dariusz); Chou, FC (Chou, Fangcheng); Hasan, MZ (Hasan, M.

Zahid); Durakiewicz, T (Durakiewicz, Tomasz). “Observation of topological nodal fermion semimetal phase in ZrSiS”, PHYSICAL REVIEW B 93, 201104 (2016).

81. Zheng, H (Zheng, Hao); Xu, SY (Xu, Su -Yang); Bian, G (Bian, Guang); Guo, C (Guo, Chen); Chang, GQ (Chang, Guoqing); Sanchez, DS (Sanchez, Daniel S.); Belopolski, I (Belopolski, Ilya); Lee, CC (Lee, Chi-Cheng); Huang, SM (Huang, Shin -Ming); Zhang, X (Zhang, Xiao); Sankar, R (Sankar, Raman); Alidoust, N (Alidoust, Nasser); Chang, TR (Chang, Tay-Rong); Wu, F (Wu, Fan); Neupert, T (Neupert, Titus); Chou, FC (Chou, Fangcheng); Jeng, HT (Jeng, Horng-Tay); Yao, N (Yao, Nan); Bansil, A (Bansil, Arun); Jia, S (Jia, Shuang); Lin, H (Lin, Hsin); Hasan, MZ (Hasan, M. Zahid). “Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy”, ACS NANO 10, 1378-1385 (2016)
82. Ou-Yang, TY (Ou-Yang, T. Y.); Shu, GJ (Shu, G. J.); Lin, JY (Lin, J-Y); Hu, CD (Hu, C. D.); Chou, FC (Chou, F. C.). “Mn vacancy defects, grain boundaries, and A-phase stability of helimagnet MnSi”, J. PHYSICS-CONDENSED MATTER 28, 026004 (2016).
83. Muthuselvam, IP (Muthuselvam, I. Panneer); Sankar, R (Sankar, R.); Ushakov, AV (Ushakov, A. V.); Chen, WT (Chen, W. T.); Rao, GN (Rao, G. Narsinga); Streltsov, SV (Streltsov, Sergey V.); Karna, SK (Karna, Sunil K.); Zhao, L (Zhao, L.); Wu, MK (Wu, M-K); Chou, FC (Chou, F. C.). “Successive spin orderings of tungstate-bridged Li<sub>2</sub>Ni(WO<sub>4</sub>)(2) of spin 1”, J. PHYSICS-CONDENSED MATTER 27, 456001 (2015).
84. Ou-Yang, TY (Ou-Yang, T. Y.); Shu, GJ (Shu, G. J.); Hu, CD (Hu, C. D.); Chou, FC (Chou, F. C.). “Preparation of Anomalous Magnetoresistance and Transport Properties of Itinerant Ferromagnet Fe<sub>1-x</sub>CoxSi”, IEEE TRANSACTIONS ON MAGNETICS 51, 1700104 (2015).
85. Xu, SY (Xu, Su-Yang); Belopolski, I (Belopolski, Ilya); Sanchez, DS (Sanchez, Daniel S.); Zhang, CL (Zhang, Chenglong); Chang, GQ (Chang, Guoqing); Guo, C (Guo, Cheng); Bian, G (Bian, Guang); Yuan, ZJ (Yuan, Zhujun); Lu, H (Lu, Hong); Chang, TR (Chang, Tay-Rong); Shibayev, PP (Shibayev, Pavel P.); Prokopovych, ML (Prokopovych, Mykhailo L.); Alidoust, N (Alidoust, Nasser); Zheng, H (Zheng, Hao); Lee, CC (Lee, Chi-Cheng); Huang, SM (Huang, Shin-Ming); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fangcheng); Hsu, CH (Hsu, Chuang-Han); Jeng, HT (Jeng, Horng-Tay); Bansil, A (Bansil, Arun); Neupert, T (Neupert, Titus); Strocov, VN (Strocov, Vladimir N.); Lin, H (Lin, Hsin); Jia, S (Jia, Shuang); Hasan, MZ (Hasan, M. Zahid). “Experimental discovery of a topological Weyl semimetal state in TaP”, SCIENCE ADVANCES 1, e1501092 (2015).
86. Koteswararao, B (Koteswararao, B.); Panda, SK (Panda, S. K.); Kumar, R (Kumar, R.); Yoo, K (Yoo, Kyongjun); Mahajan, AV (Mahajan, A. V.); Dasgupta, I (Dasgupta, I.); Chen, BH (Chen, B. H.); Kim, KH (Kim, Kee Hoon); Chou, FC (Chou, F. C.). “Observation of S=1/2 quasi-1D magnetic and magneto-dielectric behavior in a cubic SrCuTe<sub>2</sub>O<sub>6</sub>”, J. PHYSICS-CONDENSED MATTER 27, 426001 (2015).
87. Selvadurai, APB (Selvadurai, A. Paul Blessington); Pazhanivelu, V (Pazhanivelu, V.); Jagadeeshwaran, C (Jagadeeshwaran, C.); Murugaraj, R (Murugaraj, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Chou, FC (Chou, F. C.). “Influence of Cr substitution on structural, magnetic and electrical conductivity spectra of LaFeO<sub>3</sub>”, J. ALLOYS AND COMPOUNDS 646, 924-931 (2015).
88. Liu, HL (Liu, H. L.); Ou-Yang, TY (Ou-Yang, T. Y.); Tsai, HH (Tsai, H. H.); Lin, PA (Lin, P. A.); Jeng, HT (Jeng, H. T.); Shu, GJ (Shu, G. J.); Chou, FC (Chou, F. C.). “Electronic structure and lattice dynamics of Li<sub>x</sub>CoO<sub>2</sub> single crystals”, NEW J. PHYSICS 17, 103004 (2015).

89. Zeljkovic, I (Zeljkovic, Ilija); Walkup, D (Walkup, Daniel); Assaf, BA (Assaf, Badih A.); Scipioni, KL (Scipioni, Kane L.); Sankar, R (Sankar, R.); Chou, FC (Chou, Fangcheng); Madhavan, V (Madhavan, Vidya). “Strain engineering Dirac surface states in heteroepitaxial topological crystalline insulator thin films”, *NATURE NANOTECHNOLOGY* 10, 849-853 (2015).
90. Neupane, M (Neupane, Madhab); Xu, SY (Xu, Su-Yang); Sankar, R (Sankar, R.); Gibson, Q (Gibson, Q.); Wang, YJ (Wang, Y. J.); Belopolski, I (Belopolski, I.); Alidoust, N (Alidoust, N.); Bian, G (Bian, G.); Shibayev, PP (Shibayev, P. P.); Sanchez, DS (Sanchez, D. S.); Ohtsubo, Y (Ohtsubo, Y.); Taleb-Ibrahimi, A (Taleb-Ibrahimi, A.); Basak, S (Basak, S.); Tsai, WF (Tsai, W. -F.); Lin, H (Lin, H.); Durakiewicz, T (Durakiewicz, Tomasz); Cava, RJ (Cava, R. J.); Bansil, A (Bansil, A.); Chou, FC (Chou, F. C.); Hasan, MZ (Hasan, M. Z.). “Topological phase diagram and saddle point singularity in a tunable topological crystalline insulator”, *PHYSICAL REVIEW B* 92, 075131 (2015).
91. Sankar, R (Sankar, R.); Neupane, M (Neupane, M.); Xu, SY (Xu, S. -Y.); Butler, CJ (Butler, C. J.); Zeljkovic, I (Zeljkovic, I.); Muthuselvam, IP (Muthuselvam, I. Panneer); Huang, FT (Huang, F. -T.); Guo, ST (Guo, S. -T.); Karna, SK (Karna, Sunil K.); Chu, MW (Chu, M. -W.); Lee, WL (Lee, W. L.); Lin, MT (Lin, M. -T.); Jayavel, R (Jayavel, R.); Madhavan, V (Madhavan, V.); Hasan, MZ (Hasan, M. Z.); Chou, FC (Chou, F. C.). “Large single crystal growth, transport property, and spectroscopic characterizations of three-dimensional Dirac semimetal Cd<sub>3</sub>As<sub>2</sub>”, *SCIENTIFIC REPORTS* 5, 12966 (2015).
92. Xu, SY (Xu, Su-Yang); Liu, C (Liu, Chang); Belopolski, I (Belopolski, I.); Kushwaha, SK (Kushwaha, S. K.); Sankar, R (Sankar, R.); Krizan, JW (Krizan, J. W.); Chang, TR (Chang, T-R.); Polley, CM (Polley, C. M.); Adell, J (Adell, J.); Balasubramanian, T (Balasubramanian, T.); Miyamoto, K (Miyamoto, K.); Alidoust, N (Alidoust, N.); Bian, G (Bian, Guang); Neupane, M (Neupane, M.); Jeng, HT (Jeng, H-T.); Huang, CY (Huang, C-Y.); Tsai, WF (Tsai, W-F.); Okuda, T (Okuda, T.); Bansil, A (Bansil, A.); Chou, FC (Chou, F. C.); Cava, RJ (Cava, R. J.); Lin, H (Lin, H.); Hasan, MZ (Hasan, M. Z.). “Lifshitz transition and Van Hove singularity in a three-dimensional topological Dirac semimetal”, *PHYSICAL REVIEW B* 92, 075115 (2015).
93. Xu, SY (Xu, Su-Yang); Belopolski, I (Belopolski, Ilya); Alidoust, N (Alidoust, Nasser); Neupane, M (Neupane, Madhab); Bian, G (Bian, Guang); Zhang, CL (Zhang, Chenglong); Sankar, R (Sankar, Raman); Chang, GQ (Chang, Guoqing); Yuan, ZJ (Yuan, Zhujun); Lee, CC (Lee, Chi-Cheng); Huang, SM (Huang, Shin-Ming); Zheng, H (Zheng, Hao); Ma, J (Ma, Jie); Sanchez, DS (Sanchez, Daniel S.); Wang, BK (Wang, BaoKai); Bansil, A (Bansil, Arun); Chou, FC (Chou, Fangcheng); Shibayev, PP (Shibayev, Pavel P.); Lin, H (Lin, Hsin); Jia, S (Jia, Shuang); Hasan, MZ (Hasan, M. Zahid). “Discovery of a Weyl fermion semimetal and topological Fermi arcs”, *SCIENCE* 349, 613-617 (2015).
94. Karna, SK (Karna, Sunil K.); Wang, CW (Wang, C. W.); Sankar, R (Sankar, R.); Avdeev, M (Avdeev, M.); Singh, A (Singh, A.); Muthuselvam, IP (Muthuselvam, I. Panneer); Singh, VN (Singh, V. N.); Guo, GY (Guo, G. Y.); Chou, FC (Chou, F. C.). “Antiferromagnetic spin structure and negative thermal expansion of Li<sub>2</sub>Ni(WO<sub>4</sub>)<sub>2</sub>”, *PHYSICAL REVIEW B* 92, 014413 (2015).
95. Neupane, M (Neupane, Madhab); Xu, SY (Xu, Su-Yang); Alidoust, N (Alidoust, Nasser); Sankar, R (Sankar, Raman); Belopolski, I (Belopolski, Ilya); Sanchez, DS (Sanchez, Daniel S.); Bian, G (Bian, Guang); Liu, C (Liu, Chang); Chang, TR (Chang, Tay-Rong); Jeng, HT (Jeng, Horng-Tay); Wang, BK (Wang, BaoKai); Chang, GQ (Chang, Guoqing); Lin, H (Lin, Hsin); Bansil, A (Bansil, Arun); Chou, FC (Chou, Fangcheng); Hasan, MZ (Hasan, M. Zahid). “Surface

versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal”, PHYSICAL REVIEW B 91, 241114 (2015).

96. Ou-Yang, TY (Ou-Yang, T. Y.); Shu, GJ (Shu, G. J.); Hu, CD (Hu, C. D.); Chou, FC (Chou, F. C.). “Dynamic susceptibility study on the skyrmion phase stability of Fe<sub>0.7</sub>Co<sub>0.3</sub>Si”, J. APPLIED PHYSICS 117, 123903 (2015).
97. Shu, GJ (Shu, G. J.); Liou, SC (Liou, S. C.); Karna, S (Karna, S.); Sankar, R (Sankar, R.); Hayashi, M (Hayashi, M.); Chu, MW (Chu, M. -W.); Chou, FC (Chou, F. C.). “Graphene-like conjugated pi bond system in Pb<sub>1-x</sub>Sn<sub>x</sub>Se”, APPLIED PHYSICS LETTERS 106, 122101 (2015).
98. Liu, HL (Liu, H. L.); Ou-Yang, TY (Ou-Yang, T. Y.); Tsai, HH (Tsai, H. H.); Lin, PA (Lin, P. A.); Jeng, HT (Jeng, H. T.); Shu, GJ (Shu, G. J.); Chou, FC (Chou, F. C.). “Electronic structure and lattice dynamics of Li<sub>x</sub>CoO<sub>2</sub> single crystals”, NEW J. OF PHYSICS 17, 103004 (2015).
99. Zeljkovic, I (Zeljkovic, Ilija); Scipioni, KL (Scipioni, Kane L.); Walkup, D (Walkup, Daniel); Okada, Y (Okada, Yoshinori); Zhou, WW (Zhou, Wenwen); Sankar, R (Sankar, R.); Chang, GQ (Chang, Guoqing); Wang, YJ (Wang, Yung Jui); Lin, H (Lin, Hsin); Bansil, A (Bansil, Arun); Chou, FC (Chou, Fangcheng); Wang, ZQ (Wang, Ziqiang); Madhavan, V (Madhavan, Vidya), “Nanoscale determination of the mass enhancement factor in the lightly doped bulk insulator lead selenide”, NATURE COMMUNICATIONS 6, 6559 (2015).
100. Zeljkovic, I (Zeljkovic, Ilija); Okada, Y (Okada, Yoshinori); Serbyn, M (Serbyn, Maksym); Sankar, R (Sankar, R.); Walkup, D (Walkup, Daniel); Zhou, WW (Zhou, Wenwen); Liu, JW (Liu, Junwei); Chang, GQ (Chang, Guoqing); Wang, YJ (Wang, Yung Jui); Hasan, MZ (Hasan, M. Zahid); Chou, FC (Chou, Fangcheng); Lin, H (Lin, Hsin); Bansil, A (Bansil, Arun); Fu, L (Fu, Liang); Madhavan, V (Madhavan, Vidya). “Dirac mass generation from crystal symmetry breaking on the surfaces of topological crystalline insulators”, NATURE MATERIALS 14, 318-324 (2015).
101. Rao, GN (Rao, G. Narsinga); Singh, VN (Singh, Viveka Nand); Sankar, R (Sankar, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Guo, GY (Guo, Guang-Yu); Chou, FC (Chou, F. C.). “Antiferromagnetism of Ni<sub>2</sub>NbBO<sub>6</sub> with S=1 dimer quasi-one-dimensional armchair chains”, PHYSICAL REVIEW B 91, 014423 (2015).
102. Liu, XS (Liu, Xiaosong); Wang, YJ (Wang, Yung Jui); Barbiellini, B (Barbiellini, Bernardo); Hafiz, H (Hafiz, Hasnain); Basak, S (Basak, Susmita); Liu, J (Liu, Jun); Richardson, T (Richardson, Thomas); Shu, GJ (Shu, Guojiun); Chou, FC (Chou, Fangcheng); Weng, TC (Weng, Tsu-Chien); Nordlund, D (Nordlund, Dennis); Sokaras, D (Sokaras, Dimosthenis); Moritz, B (Moritz, Brian); Devereaux, TP (Devereaux, Thomas P.); Qiao, RM (Qiao, Ruimin); Chuang, YD (Chuang, Yi-De); Bansil, A (Bansil, Arun); Hussain, Z (Hussain, Zahid); Yang, WL (Yang, Wanli). “Why LiFePO<sub>4</sub> is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation”, PHYSICAL CHEMISTRY CHEMICAL PHYSICS 17, 26369-26377 (2015).
103. Yang, HH (Yang, Hung-Hsiang); Chu, YH (Chu, Yu-Hsun); Lu, CI (Lu, Chun-I); Butler, CJ (Butler, Christopher John); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Lin, MT (Lin, Minn-Tsong). “Organic Monolayer Protected Topological Surface State”, NANO LETTERS 15, 6896-9600 (2015).
104. Bawden, L (Bawden, Lewis); Riley, JM (Riley, Jonathan M.); Kim, CH (Kim, Choong H.); Sankar, R (Sankar, Raman); Monkman, EJ (Monkman, Eric J.); Shai, DE (Shai, Daniel E.); Wei,

- HFI (Wei, Haofei I.); Lochocki, EB (Lochocki, Edward B.); Wells, JW (Wells, Justin W.); Meevasana, W (Meevasana, Worawat); Kim, TK (Kim, Timur K.); Hoesch, M (Hoesch, Moritz); Ohtsubo, Y (Ohtsubo, Yoshiyuki); Le Fevre, P (Le Fevre, Patrick); Fennie, CJ (Fennie, Craig J.); Shen, KM (Shen, Kyle M.); Chou, FC (Chou, Fangcheng); King, PDC (King, Phil D. C.). “Hierarchical spin-orbital polarization of a giant Rashba system”, *SCIENCE ADVANCES* 1, e1500495 (2015).
105. Wei, PC (Wei, Pai-Chun); Yang, CC (Yang, Chun-Chuen); Chen, JL (Chen, Jeng-Lung); Sankar, R (Sankar, Raman); Chen, CL (Chen, Chi-Liang); Hsu, CH (Hsu, Chia-Hao); Chang, CC (Chang, Chung-Chieh); Chen, CL (Chen, Cheng-Lung); Dong, CL (Dong, Chung-Li); Chou, FC (Chou, Fang-Cheng); Chen, KH (Chen, Kuei-Hsien); Wu, MK (Wu, Maw-Kuen); Chen, YY (Chen, Yang-Yuan). “Enhancement of thermoelectric figure of merit in beta-Zn<sub>4</sub>Sb<sub>3</sub> by indium doping control”, *APPLIED PHYSICS LETTERS* 107, 123902 (2015).
106. Tu, CM (Tu, Chien-Ming); Yeh, TT (Yeh, Tien-Tien); Tzeng, WY (Tzeng, Wen-Yen); Chen, YR (Chen, Yi-Ru); Chen, HJ (Chen, Hsueh-Ju); Ku, SA (Ku, Shin-An); Luo, CW (Luo, Chih-Wei); Lin, JY (Lin, Jiunn-Yuan); Wu, KH (Wu, Kaung-Hsiung); Juang, JY (Juang, Jenh-Yih); Kobayashi, T (Kobayashi, Takayoshi); Cheng, CM (Cheng, Cheng-Maw); Tsuei, KD (Tsuei, Ku-Ding); Berger, H (Berger, Helmuth); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng). “Manifestation of a Second Dirac Surface State and Bulk Bands in THz Radiation from Topological Insulators”, *SCIENTIFIC REPORTS* 5, 14128 (2015).
107. Karna, SK (Karna, Sunil K.); Lee, CH (Lee, Chi-Hung); Li, WH (Li, Wen-Hsien); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Avdeev, M (Avdeev, Maxim). “Fe-excess Ions as Electronic Charge Suppliers for Zero Thermal Expansion in the Normal State of Fe<sub>1.16</sub>Te<sub>0.6</sub>Se<sub>0.4</sub>”, *J. PHYSICAL SOCIETY OF JAPAN* 84, 094713 (2015).
108. Li, WH (Li, Wen-Hsien); Karna, SK (Karna, Sunil K.); Hsu, H (Hsu, Han); Li, CY (Li, Chi-Yen); Lee, CH (Lee, Chi-Hung); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang Cheng). “Development of a ferromagnetic component in the superconducting state of Fe-excess Fe<sub>1.12</sub>Te<sub>1-x</sub>Se<sub>x</sub> by electronic charge redistribution”, *SCIENTIFIC REPORTS* 5 (2015).
109. Sucharitakul, S (Sucharitakul, Sukrit); Goble, NJ (Goble, Nicholas J.); Kumar, UR (Kumar, U. Rajesh); Sankar, R (Sankar, Raman); Bogorad, ZA (Bogorad, Zachary A.); Chou, FC (Chou, Fang-Cheng); Chen, YT (Chen, Yit-Tsong); Gao, XPA (Gao, Xuan P. A.). “Intrinsic Electron Mobility Exceeding 10<sup>3</sup> cm<sup>2</sup>/(V s) in Multilayer InSe FETs”, *NANO LETTERS* 15, 3815-3819 (2015).
110. Corallini, S (Corallini, Serena); Ceretti, M (Ceretti, Monica); Silly, G (Silly, Gilles); Piovano, A (Piovano, Andrea); Singh, S (Singh, Shubra); Stern, J (Stern, Josef); Ritter, C (Ritter, Clemens); Ren, JJ (Ren, Jinjun); Eckert, H (Eckert, Hellmut); Conder, K (Conder, Kazimirz); Chen, WT (Chen, Wei-tin); Chou, FC (Chou, Fang-Cheng); Ichikawa, N (Ichikawa, Noriya); Shimakawa, Y (Shimakawa, Yuichi); Paulus, W (Paulus, Werner). “One-Dimensional Oxygen Diffusion Mechanism in Sr<sub>2</sub>ScGaO<sub>5</sub> Electrolyte Explored by Neutron and Synchrotron Diffraction, O-17 NMR, and Density Functional Theory Calculations”, *J. PHYSICAL CHEMISTRY C* 119, 11447-11458 (2015).
111. Muthuselvam, IP (Muthuselvam, I. Panneer); Sankar, R (Sankar, Raman); Singh, VN (Singh, Viveka Nand); Rao, GN (Rao, G. Narsinga); Lee, WL (Lee, Wei-Li); Guo, GY (Guo, Guang-Yu); Chou, FC (Chou, Fang-Cheng). “Magnetic Orderings in Li<sub>2</sub>Cu(WO<sub>4</sub>)<sub>2</sub> with Tungstate-Bridged Quasi-1D Spin-1/2 Chains”, *INORGANIC CHEMISTRY* 54, 4303-4309 (2015).

112. Lai, YC (Lai, Yen-Chung); Shu, GJ (Shu, Guo-Jiun); Chen, WT (Chen, Wei-Tin); Du, CH (Du, Chao-Hung); Chou, FC (Chou, Fang-Cheng). "Self-adjusted flux for the traveling solvent floating zone growth of YBaCuFeO5 crystal", *J. CRYSTAL GROWTH* 413, 100-104 (2015).
113. Xu, SY (Xu, Su-Yang); Liu, C (Liu, Chang); Kushwaha, SK (Kushwaha, Satya K.); Sankar, R (Sankar, Raman); Krizan, JW (Krizan, Jason W.); Belopolski, I (Belopolski, Ilya); Neupane, M (Neupane, Madhab); Bian, G (Bian, Guang); Alidoust, N (Alidoust, Nasser); Chang, TR (Chang, Tay-Rong); Jeng, HT (Jeng, Horng-Tay); Huang, CY (Huang, Cheng-Yi); Tsai, WF (Tsai, Wei-Feng); Lin, H (Lin, Hsin); Shibayev, PP (Shibayev, Pavel P.); Chou, FC (Chou, Fang-Cheng); Cava, RJ (Cava, Robert J.); Hasan, MZ (Hasan, M. Zahid). "Observation of Fermi arc surface states in a topological metal", *SCIENCE* 347, 294-298 (2015).
114. Liu, CY (Liu, Cheng-Yue); Zheng, XY (Zheng, Xiang-Yao); Wang, CH (Wang, Chien-Hao); Syue, CH (Syue, Chih-Hao); Tseng, CY (Tseng, Ching-Ya); Lee, YC (Lee, Yeun-Chung); Jiang, JA (Jiang, Joe-Air); Chou, FC (Chou, Fang-Cheng). "A Novel Embedded System-Based Backbone Communication Network for Smart Grid", 2015 9TH INTERNATIONAL CONFERENCE ON SENSING TECHNOLOGY (ICST) 474-481 (2015).
115. Sankar, R (Sankar, Raman); Wong, DP (Wong, Deniz P.); Chi, CS (Chi, Chiao-Song); Chien, WL (Chien, Wei-Lun); Hwang, JS (Hwang, Jih-Shang); Chou, FC (Chou, Fang-Cheng); Chen, LC (Chen, Li-Chyong); Chen, KH (Chen, Kuei-Hsien). "Enhanced thermoelectric performance of GeTe-rich germanium antimony tellurides through the control of composition and structure", *CRYSTENGCOMM* 17, 3440-3445 (2015).
116. Wu, MW (Wu, Ming-Wei); Lai, PH (Lai, Pang-Hsin); Hong, CH (Hong, Chia-Hong); Chou, FC (Chou, Fang-Cheng). "The sintering behavior, microstructure, and electrical properties of gallium-doped zinc oxide ceramic targets", *J. EUROPEAN CERAMIC SOCIETY* 34, 3715-3722 (2014).
117. Xu, SY (Xu, Su-Yang); Alidoust, N (Alidoust, Nasser); Belopolski, I (Belopolski, Ilya); Richardella, A (Richardella, Anthony); Liu, C (Liu, Chang); Neupane, M (Neupane, Madhab); Bian, G (Bian, Guang); Huang, SH (Huang, Song-Hsun); Sankar, R (Sankar, Raman); Fang, C (Fang, Chen); Dellabetta, B (Dellabetta, Brian); Dai, WQ (Dai, Wenqing); Li, Q (Li, Qi); Gilbert, MJ (Gilbert, Matthew J.); Chou, FC (Chou, Fangcheng); Samarth, N (Samarth, Nitin); Hasan, MZ (Hasan, M. Zahid). "Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor", *NATURE PHYSICS* 10, 943-950 (2014).
118. Rao, GN (Rao, G. Narsinga); Sankar, R (Sankar, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Chou, FC (Chou, F. C.). "Magnetic and thermal property studies of RCrTeO6 (R=trivalent lanthanides) with layered honeycomb sublattices", *J. MAGNETISM AND MAGNETIC MATERIALS* 370, 13-17 (2014).
119. Ou-Yang, TY (Ou-Yang, T. Y.); Shu, GJ (Shu, G. J.); Hu, CD (Hu, C. D.); Chou, FC (Chou, F. C.). "Manganese Deficiency in MnSi Single Crystal and Skyrmion Pinning", *IEEE TRANSACTIONS ON MAGNETICS* 50, 1500404 (2014).
120. Chen, JW (Chen, J. W.); Chou, NS (Chou, N. S.); Rao, GN (Rao, G. Narsinga); Chou, FC (Chou, F. C.). "Crystal structure, electrical, and magnetic properties of the Sm<sub>2</sub>Cu<sub>0.8</sub>Ge<sub>3</sub> compound", *Crystal structure, electrical, and magnetic properties of the Sm<sub>2</sub>Cu<sub>0.8</sub>Ge<sub>3</sub> compound*, *INTERMETALLICS* 54, 56-59 (2014).
121. Zeljkovic, I (Zeljkovic, Ilija); Okada, Y (Okada, Yoshinori); Huang, CY (Huang, Cheng-Yi); Sankar, R (Sankar, R.); Walkup, D (Walkup, Daniel); Zhou, WW (Zhou, Wenwen); Serbyn, M

- (Serbyn, Maksym); Chou, FC (Chou, Fangcheng); Tsai, WF (Tsai, Wei-Feng); Lin, H (Lin, Hsin); Bansil, A (Bansil, A.); Fu, L (Fu, Liang); Hasan, MZ (Hasan, M. Zahid); Madhavan, V (Madhavan, Vidya). "Mapping the unconventional orbital texture in topological crystalline insulators", NATURE PHYSICS 10, 572-577 (2014).
122. Koteswararao, B (Koteswararao, B.); Kumar, R (Kumar, R.); Khuntia, P (Khuntia, P.); Bhowal, S (Bhowal, Sayantika); Panda, SK (Panda, S. K.); Rahman, MR (Rahman, M. R.); Mahajan, AV (Mahajan, A. V.); Dasgupta, I (Dasgupta, I.); Baenitz, M (Baenitz, M.); Kim, KH (Kim, Kee Hoon); Chou, FC (Chou, F. C.). "Magnetic properties and heat capacity of the three-dimensional frustrated S=1/2 antiferromagnet PbCuTeO<sub>6</sub>", PHYSICAL REVIEW B 90, 035141 (2014).
123. Chen, JW (Chen, J. W.); Rao, GN (Rao, G. Narsinga); Lee, HM (Lee, Huai-Min); Lee, WL (Lee, W. L.); Chou, FC (Chou, F. C.). "Dielectric properties of the spin-1/2 dimer compounds Ba<sub>3</sub>Cr<sub>2</sub>O<sub>8</sub> and Sr<sub>3</sub>Cr<sub>2</sub>O<sub>8</sub>", MATERIALS CHEMISTRY AND PHYSICS 145, 461-464 (2014).
124. Plumb, KW (Plumb, K. W.); Savici, AT (Savici, A. T.); Granroth, GE (Granroth, G. E.); Chou, FC (Chou, F. C.); Kim, YJ (Kim, Young-June). "High-energy continuum of magnetic excitations in the two-dimensional quantum antiferromagnet Sr<sub>2</sub>CuO<sub>2</sub>Cl<sub>2</sub>", PHYSICAL REVIEW B 89, 180410 (2014).
125. Venugopal, RB (Venugopal, Rao Bakshi); Bandi, VP (Bandi, Vittal Prasad); Gade, NR (Gade, Narsinga Rao); Chou, FC (Chou, F.C.); Devarasetty, SB (Devarasetty, Suresh Babu). "Magnetization Reversal in Fe Doped SmCrO<sub>3</sub>", PHYSICS PROCEDIA 54, 138-144 (2014).
126. Gnezdilov, V (Gnezdilov, V.); Lemmens, P (Lemmens, P.); Wulferding, D (Wulferding, D.); Moller, A (Moeller, A.); Recher, P (Recher, P.); Berger, H (Berger, H.); Sankar, R (Sankar, R.); Chou, FC (Chou, F. C.). "Enhanced quasiparticle dynamics of quantum well states: The giant Rashba system BiTeI and topological insulators", PHYSICAL REVIEW B 89, 195117 (2014).
127. Sankar, R (Sankar, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Shu, GJ (Shu, G. J.); Chen, WT (Chen, W. T.); Karna, SK (Karna, Sunil K.); Jayavel, R (Jayavel, R.); Chou, FC (Chou, F. C.). "Crystal growth and magnetic ordering of Na<sub>2</sub>Ni<sub>2</sub>TeO<sub>6</sub> with honeycomb layers and Na<sub>2</sub>Cu<sub>2</sub>TeO<sub>6</sub> with Cu spin dimers", CRYSTENGCOMM 16, 10791-10796 (2014).
128. Sankar, R (Sankar, R.); Muthuselvam, IP (Muthuselvam, I. Panneer); Butler, CJ (Butler, Christopher John); Liou, SC (Liou, S. -C.); Chen, BH (Chen, B. H.); Chu, MW (Chu, M. -W.); Lee, WL (Lee, W. L.); Lin, MT (Lin, Minn-Tsong); Jayavel, R (Jayavel, R.); Chou, FC (Chou, F. C.). "Room temperature agglomeration for the growth of BiTeI single crystals with a giant Rashba effect". CRYSTENGCOMM 16, 8678-8983 (2014).
129. Alidoust, N (Alidoust, Nasser); Bian, G (Bian, Guang); Xu, SY (Xu, Su-Yang); Sankar, R (Sankar, Raman); Neupane, M (Neupane, Madhab); Liu, C (Liu, Chang); Belopolski, I (Belopolski, Ilya); Qu, DX (Qu, Dong-Xia); Denlinger, JD (Denlinger, Jonathan D.); Chou, FC (Chou, Fang-Cheng); Hasan, MZ (Hasan, M. Zahid). "Observation of monolayer valence band spin-orbit effect and induced quantum well states in MoX<sub>2</sub>", NATURE COMMUNICATIONS 5, 4673 (2014).
130. Mohanraman, R (Mohanraman, Rajeshkumar); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang-Cheng); Lee, CH (Lee, Chih-Hao); Iizuka, Y (Iizuka, Yoshiyuki); Muthuselvam, IP (Muthuselvam, I. Panneer); Chen, YY (Chen, Yang-Yuan). "Influence of nanoscale Ag<sub>2</sub>Te precipitates on the thermoelectric properties of the Sn doped P-type AgSbTe<sub>2</sub> compound", APL MATERIALS 2, 096114 (2014).

131. Karna, SK (Karna, Sunil K.); Hsu, H (Hsu, Han); Li, CY (Li, Chi-Yen); Liu, SB (Liu, Shin-Bin); Lee, CH (Lee, Chi-Hung); Li, WH (Li, Wen-Hsien); Sankar, R (Sankar, Raman); Chou, FC (Chou, Fang Cheng). “Direct Interplay between Superconductivity and Ferromagnetism in  $\text{Fe}_{1+y}(\text{Te}_{0.5}\text{Se}_{0.5})$ ”, J. PHYSICAL SOCIETY OF JAPAN 83, 074709 (2014).
132. Butler, CJ (Butler, Christopher John); Yang, HH (Yang, Hung-Hsiang); Hong, JY (Hong, Jhen-Yong); Hsu, SH (Hsu, Shih-Hao); Sankar, R (Sankar, Raman); Lu, CI (Lu, Chun-I); Lu, HY (Lu, Hsin-Yu); Yang, KHO (Yang, Kui-Hon Ou); Shiu, HW (Shiu, Hung-Wei); Chen, CH (Chen, Chia-Hao); Kaun, CC (Kaun, Chao-Cheng); Shu, GJ (Shu, Guo-Jiun); Chou, FC (Chou, Fang-Cheng); Lin, MT (Lin, Minn-Tsong). “Mapping polarization induced surface band bending on the Rashba semiconductor  $\text{BiTeI}$ ”, NATURE COMMUNICATIONS 5, 4066 (2014).
133. Tamalampudi, SR (Tamalampudi, Srinivasa Reddy); Lu, YY (Lu, Yi-Ying); Kumar, UR (Kumar, Rajesh U.); Sankar, R (Sankar, Raman); Liao, CD (Liao, Chun-Da); Moorthy, BK (Moorthy, Karukanara B.); Cheng, CH (Cheng, Che-Hsuan); Chou, FC (Chou, Fang Cheng); Chen, YT (Chen, Yit-Tsong). “High Performance and Bendable Few-Layered InSe Photodetectors with Broad Spectral Response”, NANO LETTERS 14, 2800-2806 (2014).
134. Hsu, HC (Hsu, Hung Chang); Lee, WL (Lee, Wei-Li); Lin, JY (Lin, Jiunn-Yuan); Young, BL (Young, Ben-Li); Kung, HH (Kung, Hsiang-Hsi); Huang, J (Huang, Jian); Chou, FC (Chou, Fang Cheng). “Spin-Glass Transition and Giant Paramagnetism in Heavily Hole-Doped  $\text{Bi}_2\text{Sr}_2\text{Co}_2\text{O}_y$ ”, J. PHYSICAL SOCIETY OF JAPAN 83, 024709 (2014).
135. Boopathi, KM (Boopathi, Karunakara Moorthy); Raman, S (Raman, Sankar); Mohanraman, R (Mohanraman, Rajeshkumar); Chou, FC (Chou, Fang-Cheng); Chen, YY (Chen, Yang-Yuang); Lee, CH (Lee, Chih-Hao); Chang, FC (Chang, Feng-Chih); Chu, CW (Chu, Chih-Wei). “Solution-processable bismuth iodide nanosheets as hole transport layers for organic solar cells”, SOLAR ENERGY MATERIALS AND SOLAR CELLS 121, 35-41 (2014).
136. Mohanraman, R (Mohanraman, Rajeshkumar); Sankar, R (Sankar, Raman); Boopathi, KM (Boopathi, Karunakara Moorthy); Chou, FC (Chou, Fang-Cheng); Chu, CW (Chu, Chih-Wei); Lee, CH (Lee, Chih-Hao); Chen, YY (Chen, Yang-Yuan). “Influence of In doping on the thermoelectric properties of an  $\text{AgSbTe}_2$  compound with enhanced figure of merit”, J. MATERIALS CHEMISTRY A 2, 2839-2844 (2014).
137. Muthuselvam, IP (Muthuselvam, I. Panneer); Sankar, R (Sankar, R.); Ushakov, AV (Ushakov, A. V.); Rao, GN (Rao, G. Narsinga); Streltsov, SV (Streltsov, Sergey V.); Chou, FC (Chou, F. C.). “Two-step antiferromagnetic transition and moderate triangular frustration in  $\text{Li}_2\text{Co}(\text{WO}_4)_2$ ”, PHYSICAL REVIEW B 90, 174430 (2014).
138. Neupane, M (Neupane, Madhab); Xu, SY (Xu, Su-Yang); Sankar, R (Sankar, Raman); Alidoust, N (Alidoust, Nasser); Bian, G (Bian, Guang); Liu, C (Liu, Chang); Belopolski, I (Belopolski, Ilya); Chang, TR (Chang, Tay-Rong); Jeng, HT (Jeng, Horng-Tay); Lin, H (Lin, Hsin); Bansil, A (Bansil, Arun); Chou, F (Chou, Fangcheng); Hasan, MZ (Hasan, M. Zahid). “Observation of a three-dimensional topological Dirac semimetal phase in high-mobility  $\text{Cd}_3\text{As}_2$ ”, NATURE COMMUNICATIONS 5, 3786 (2014).