

原子與分子科學研究所

張煥正 (CHANG, HUAN-CHENG)

期刊論文

- S. Haziza*, N. Mohan, A.-M. Lepagnol-Bestel, S. Massou, M.-P. Adam, Y. Loe-Mie, X. L. Le, J. Viard, C. Plancon, R. Daudin, P. Koebel, F.-J. Hsieh, C.-C. Wu, B. Potier, Y. Herault, C. Sala, A. Corvin, H.-C. Chang, F. Treussart*, and M. Simonneau*, submitted, “Fluorescent nanodiamond tracking reveals intraneuronal transport abnormalities induced by brain disease-related genetic risk factors”, *NATURE NANOTECHNOLOGY*. (SCI) (IF: 35.267; SCI ranking: 0.7%)
- M. K. Pola, M. V. R. Raju, C.-M. Lin, R. Putikam, M.-C. Lin, C. P. Epperla, H.-C. Chang, S.-Y. Chen, and H.-C. Lin*, 2016, “A fully-aqueous red-fluorescent probe for selective optical sensing of Hg⁽²⁺⁾ and its application in living cells”, *DYES PIGMENTS*, 130, 256–262. (SCI) (IF: 4.055; SCI ranking: 4.3%)
- H. Shen, R. Y. Chou, Y. Y. Hui, Y. He, Y. Cheng, H.-C. Chang, L. Tong, Q. Gong, and G. Lu*, 2016, “Directional fluorescence emission from a compact plasmonic-diamond hybrid nanostructure”, *LASER & PHOTONICS REVIEWS*, DOI: 10.1002/lpor.201600021. (SCI) (IF: 7.486; SCI ranking: 4.4%)
- W. W.-W. Hsiao, Y. Y. Hui, P.-C. Tsai, and H.-C. Chang*, 2016, “Fluorescent nanodiamond: A versatile tool for long-term cell tracking, super-resolution imaging, and nanoscale temperature sensing”, *ACCOUNTS OF CHEMICAL RESEARCH*, 49, 400–407. (SCI) (IF: 22.003; SCI ranking: 3.1%)
- C. P. Epperla, O. Y. Chen, and H.-C. Chang*, 2016, “Gold/diamond nanohybrids may reveal how hyperlocalized hyperthermia kills cancer cells”, *NANOMEDICINE*, 11, 443–445. (SCI) (IF: 4.889; SCI ranking: 11.2%)
- N. Zhang, K. Zhu, C. Xiong, Y. Jiang, H.-C. Chang, and Z. Nie*, 2016, “Mass measurement of single intact nanoparticles in a cylindrical ion trap”, *ANALYTICAL CHEMISTRY*, 88, 5958–5962. (SCI) (IF: 5.886; SCI ranking: 5.3%)
- S. Nagarajan, C. Pioche-Durieu, L. H. G. Tizei, C.-Y. Fang, J.-R. Bertrand, E. Le Cam, H.-C. Chang, F. Treussart*, and M. Kociak*, 2016, “Simultaneous cathodoluminescence and electron microscopy cytometry of cellular vesicles labeled with fluorescent nanodiamonds”, *NANOSCALE*, 8, 11588–11594. (SCI) (IF: 7.76; SCI ranking: 8.3%)
- Y. Y. Hui, W. W.-W. Hsiao, S. Haziza, M. Simonneau, F. Treussart*, and H.-C. Chang*, 2016, “Single particle tracking of fluorescent nanodiamonds in cells and organisms”, *CURRENT OPINION IN SOLID STATE & MATERIALS SCIENCE*, DOI: 10.1016/j.cossms.2016.04.002. (SCI) (IF: 5.111; SCI ranking: 11.7%)
- M. D. Pham, T.-C. Wen, H.-C. Li, P.-H. Hsieh, Y.-R. Chen, H.-C. Chang*, and C.-C. Han*, 2016, “Streamlined membrane proteome preparation for shotgun proteomics analysis with Triton X-100 cloud point extraction and nanodiamond solid phase extraction”, *MATERIALS*, 9, 385. (SCI) (IF: 2.728; SCI ranking: 23.2%)

B.-M. Chang, H.-C. Chang, and D. Ho, accepted, “Biolabeling and drug delivery applications”, editor(s): J.-C. Arnault, *Nanodiamonds: Advanced Material Analysis, Properties and Applications*, USA: Elsevier.

W. W.-W. Hsiao, H.-H. Lin, and H.-C. Chang, accepted, “Diamond nanoparticles for drug delivery and monitoring”, editor(s): C. Nebel and C. Kranz, *Springer Series on Chemical Sensors and Biosensors*, USA: Springer.

Y. Y. Hui, C.-A. Cheng, O. Y. Chen, and H.-C. Chang, 2016, “Bioimaging and quantum sensing using NV centers in diamond nanoparticles”, editor(s): N. Yang, *Carbon Nanoparticles and Structures*, pp. 109–137, USA: Springer.

W. W.-W. Hsiao, H.-H. Lin, F.-J. Hsieh, and H.-C. Chang, 2016, “Surface-modified nanodiamonds”, editor(s): K. D. Sattler, *Carbon Nanomaterials Sourcebook: Graphene, Fullerenes, Nanotubes, and Nanodiamonds*, pp. 517–533, USA: CRC Press.

張銘顯 (CHANG, MING-SHIEN)

期刊論文

H. H. Jen*, M.-S. Chang, and Y.-C. Chen, 2016, “Cooperative single-photon subradiant states”, *PHYSICAL REVIEW A*, 94(1), 013803. (SCI) (IF: 2.765; SCI ranking: 18.9%)

張大釗 (CHANG, TA-CHAU)

期刊論文

ZF Wang, MH Li, WW Chen, ST Hsu, TC Chang*, 2016, “A novel transition pathway of ligand-induced topological conversion from hybrid forms to parallel forms of human telomeric G-quadruplexes”, *NUCLEIC ACIDS RESEARCH*, 44(8), 3958-3968. (SCI) (IF: 9.202; SCI ranking: 6.2%)

WW Chen, YH Yi, CH Chien, KC Hsiung, TH Ma, YC Lin, SJ Lo, TC Chang*, 2016, “Specific polyunsaturated fatty acids modulate lipid delivery and oocyte development in *C. elegans* revealed by molecular-selective label-free imaging”, *SCIENTIFIC REPORTS*, 6, 32021. (SCI) (IF: 5.228; SCI ranking: 11.1%)

陳家俊 (CHEN, CHIA-CHUN)

期刊論文

M. Gong, D.-Y. Wang, Chia-Chun Chen*, B.-J. Hwang*, Hongjie Dai*, 2016, “A mini review on nickel-based electrocatalysts for alkaline hydrogen evolution reaction”, *NANO RESEARCH*, 9(1), 28–46. (SCI) (IF: 8.893; SCI ranking: 6.3%)

D.-Y. Wang*, C.-H Li, S.-S. Li, T.-R. Kuo, C.-M. Tsai, T.-R. Chen, Y.-C. Wang, C.-W. Chen*, Chia-Chun Chen*, 2016, “Iron Pyrite/Titanium Dioxide Photoanode for Extended Near Infrared Light Harvesting in a Photoelectrochemical Cell”, *SCIENTIFIC REPORTS*, 6: 20397. (SCI) (IF: 5.228; SCI ranking: 11.1%)

- H.-Y. Lin, C.-H. Li, D.-Y. Wang*, Chia-Chun Chen*, 2016, “Chemical doping of a core–shell silicon nanoparticles@polyaniline nanocomposite for the performance enhancement of a lithium ion battery anode”, *NANOSCALE*, 8(3), 1280–1287. (SCI) (IF: 7.76; SCI ranking: 8.3%)
- S.-S. Li, C.-H. Chang, Y.-C. Wang, C.-W. Lin, D.-Y. Wang, J.-C. Lin, Chia-Chun Chen, H.-S. Sheu, H.-C. Chia, W.-R. Wu, U.-S. Jeng*, C.-T. Liang, R. S., F.-C. Chou, C.-W. Chen*, 2016, “Intermixing-seeded growth for high-performance planar heterojunction perovskite solar cells assisted by precursor-capped nanoparticles”, *ENERGY & ENVIRONMENTAL SCIENCE*, 9(4), 1282–1289. (SCI) (IF: 25.427; SCI ranking: 0.4%)
- B. Ramaraju, C.-H. Li, S. Prakash, Chia-Chun Chen*, 2016, “Metal–organic framework derived hollow polyhedron metal oxide posited graphene oxide for energy storage applications”, *CHEMICAL COMMUNICATIONS*, 52(5), 946-949. (SCI) (IF: 6.567; SCI ranking: 12.9%)

學術會議(研討會)論文

- Chun-Wei Chen*, Chia-Chun Chen, Po-Hsun Hoa, 2016, “Strong light-matter interactions at graphene-heterostructures for photonics and photovoltaics”, paper presented at *2016 CIMTEC*, Perugia, Italy: CIMTEC, 2016-05-05 ~ 2016-05-09.

陳貴賢 (CHEN, KUEI-HSIEN)

期刊論文

- W.C. Chen, V. Tunuguntla, M.H. Chiu, L.J. Li, I. Shown, C.H. Lee, J.S. Hwang, L.C. Chen, K.H. Chen, accepted, “Co-solvent effect on microwave-assisted $Cu_xZn_ySn_zS$ nanoparticles synthesis for thin film solar cell”, *SOLAR ENERGY MATERIALS AND SOLAR CELLS*. (SCI) (IF: 4.732; SCI ranking: 13.1%)
- C.H. Lin, R.S. Chen, Y.K. Lin, S.B. Wang, L.C. Chen, K.H. Chen, M.C. Wen, M. Chou, and L. Chang, accepted, “Photoconduction properties and anomalous power-dependent quantum efficiency in non-polar ZnO epitaxial films grown by chemical vapor deposition”, *APPLIED PHYSICS LETTERS*. (SCI) (IF: 3.142; SCI ranking: 19.3%)
- N.H.N. Tran, T.H. Nguyen, Y.R. Liu, M. Aminzare, A.T.T. Pham, S. Cho, D.P. Wong, K.H. Chen, T. Seetawan, N.K. Pham, H.K.T. Ta, V.C. Tran, and T.B. Phan, accepted, “Thermoelectric properties of Indium and Gallium dually-doped ZnO thin films”, *ACS APPLIED MATERIALS & INTERFACES*. (SCI) (IF: 7.145; SCI ranking: 9.2%)
- Y.R. Lin, T.C. Chou, L.K. Liu, L.C. Chen and K.H. Chen, 2016, “A facile and green synthesis of copper zinc tin sulfide materials for thin film photovoltaics”, *THIN SOLID FILMS*. (SCI) (IF: 1.761; SCI ranking: 33.3%)
- C.P. Lee, W.F. Chen*, T. Billo, Y.G. Lin, F.Y. Fu, S. Samireddi, C.H. Lee, J.S. Hwang, L.C. Chen*, and K.H. Chen*, 2016, “Beaded-stream-like $CoSe_2$ nanoneedles array for efficient hydrogen evolution electrocatalysis”, *JOURNAL OF MATERIALS CHEMISTRY A*, 4, 4553-4561. (SCI) (IF: 8.262; SCI ranking: 4.5%)
- Y. Yesi, I. Shown, A. Ganguly, T.T. Ngo, L.C. Chen, K.H. Chen, 2016, “Directly-grown hierarchical carbon nanotube@polypyrrole core-shell hybrid for high-performance flexible supercapacitors”,

CHEMSUSCHEM, 9, 370-378. (SCI) (IF: 7.116; SCI ranking: 6.9%)

C.W. Yang, K.H. Chen, and S.F. Cheng, 2016, "Effect of pore-directing agents and silanol groups in mesoporous silica nanoparticles as Nafion fillers on the performance of DMFCs", *RSC ADVANCES*, 6, 111666. (SCI) (IF: 3.289; SCI ranking: 30.1%)

W.C. Chen, C.Y. Chen, V. Tunuguntla, S.H. Lu, C. Su, C.H. Lee, L.C. Chen, and K.H. Chen, 2016, "Enhanced solar cell performance of Cu₂ZnSn(S,Se)₄ thin films through structural control by using multi-metallic stacked nanolayers and fast ramping process for sulfo-selenization", *NANO ENERGY*. (SCI) (IF: 11.553; SCI ranking: 4.1%)

D.P. Wong, W.L. Chien, C.Y. Huang, C.E. Chang, A. Ganguly, L.M. Lyu, J.S. Hwang, L.C. Chen, and K.H. Chen, 2016, "Enhanced thermoelectric performance in percolated bismuth sulfide composite", *RSC ADVANCES*, 6, 98952. (SCI) (IF: 3.289; SCI ranking: 30.1%)

V. Tunuguntla, W.C. Chen, T.D. Newman, M.C. Hsieh, S.H. Lu, C. Su, L.C. Chen, K.H. Chen, 2016, "Enhancement of charge collection at shorter wave lengths from alternative CdS deposition conditions for high efficiency CZTSSe solar cells", *SOLAR ENERGY MATERIALS & SOLAR CELLS*, 149, 49-54. (SCI) (IF: 4.732; SCI ranking: 13.1%)

W.C. Chen, V. Tunuguntla, H.W. Li, C.Y. Chen, S.S. Li, J.S. Hwang, C.H. Lee, L.C. Chen and K.H. Chen, 2016, "Fabrication of Cu₂ZnSnSe₄ solar cells through multi-step selenization of layered metallic precursor film", *THIN SOLID FILMS*. (SCI) (IF: 1.761; SCI ranking: 33.3%)

J.M. Chiu, E-M. Chen, C.P. Lee, J.S. Chou, L.C. Chen, K.H. Chen and Y. Tai, 2016, "Geogrid-inspired nanostructure to reinforce a Cu_xZn_ySn_zS nanowall electrode for high-stability electrochemical energy conversion devices", *ADVANCED ENERGY MATERIALS*. (SCI) (IF: 15.23; SCI ranking: 2.1%)

I.N. Chen, C.W. Chong, L.M. Lyu, D.P. Wong, W.L. Chien, A. Anbu, Y.F. Chen, L.C. Chen, and K.H. Chen, 2016, "Improving the thermoelectric performance of metastable rock-salt GeTe-rich Ge-Sb-Te thin films through tuning of grain orientation and vacancies", *PHYSICA STATUS SOLIDI A*, 213, 3122-3129.

B.-Y. Wang, H. T. Wang, L.-Y. Chen, H. C. Hsueh, J. W. Chiou, W.-H. Wang, P. H. Wang, K.H. Chen, Y.-C. Chen, L.-C. Chen, C.-H. Chen, W. F. Pong, J. Wang and J.-H. Guo, 2016, "Nonlinear opening of the band gap of BN-co-doped graphene", *CARBON*, 107, 857-864. (SCI) (IF: 6.198; SCI ranking: 10%)

C.H. Lin, R.S. Chen, Y.K. Lin, S.B. Wang, L.C. Chen, K.H. Chen, M.C. Wen, M.M.C. Chou and L. Chang, 2016, "Photoconductivities in m-plane and c-plane ZnO epitaxial films grown by chemical vapor deposition on LiGaO₂ substrates: a comparative study", *RSC ADVANCES*, 6, 86095. (SCI) (IF: 3.289; SCI ranking: 30.1%)

Jyh-Chien Chen, Ping-Yen Chen, Yen-Chun Liu, Kuei-Hsien Chen, 2016, "Polybenzimidazoles containing bulky substituents and ether linkages for high-temperature proton exchange membrane fuel cell applications", *JOURNAL OF MEMBRANE SCIENCE*, 513, 270-279. (SCI) (IF: 5.557; SCI ranking: 5.2%)

J. Myers, S. Mou*, K.H. Chen, and Y. Zhuang, 2016, "Scanning microwave microscope imaging of micro-patterned monolayer graphene grown by chemical vapor deposition", *APPLIED PHYSICS*

LETTERS, 108, 053101. (SCI) (IF: 3.142; SCI ranking: 19.3%)

Jyh-Chien Chen, Jin-An Wu and Kuei-Hsien Chen, 2016, "Synthesis and characterization of novel imidazolium-functionalized polyimides for high temperature proton exchange membrane fuel cells", *RSC ADVANCES*, 6, 33959-33970. (SCI) (IF: 3.289; SCI ranking: 30.1%)

Jyh-Chien Chen, Ping-Yen Chen, Shih-Wei Lee, Geng-Lun Liou, Chun-Jung Chen, Yi-Hsin Lan, Kuei-Hsien Chen, 2016, "Synthesis of soluble polybenzimidazoles for high-temperature proton exchange membrane fuel cell (PEMFC) applications", *REACTIVE AND FUNCTIONAL POLYMERS*. (SCI) (IF: 2.725; SCI ranking: 21.5%)

C. Y. Chen, D. P. Wong, et al., K. H. Chen, L. C. Chen and Y. F. Chen, 2016, "Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy", *ACS PHOTONICS*, 3, 985. (SCI) (IF: 5.404; SCI ranking: 6.7%)

陳賜原 (CHEN, SZU-YUAN)

期刊論文

Hamza Qayyum, Chung-Jen Tseng*, Ting-Wei Huang, Szu-yuan Chen*, 2016, "Pulsed laser deposition of platinum nanoparticles as a catalyst for high-performance PEM fuel cells", *CATALYSTS*, 6, 180. (SCI) (IF: 2.964; SCI ranking: 36.8%)

Chih-Ping Yen, Pin-Feng Yu, Jyhyng Wang, Jiunn-Yuan Lin, Yen-Mu Chen, Szu-yuan Chen*, 2016, "Deposition of organic dyes for dye-sensitized solar cell by using matrix-assisted pulsed laser evaporation", *AIP ADVANCES*, 6, 085011. (SCI) (IF: 1.444; SCI ranking: 56.6%)

Hamza Qayyum, Chieh-Hsun Lu, Ying-Hung Chuang, Jiunn-Yuan Lin, and Szu-yuan Chen, 2016, "Formation of uniform high-density and small-size Ge/Si quantum dots by scanning pulsed laser annealing of pre-deposited Ge/Si film", *AIP ADVANCES*, 6, 055323. (SCI) (IF: 1.444; SCI ranking: 56.6%)

Ting-Wei Huang, Hamza Qayyum, Guan-Ren Lin, Szu-yuan Chen and Chung-Jen Tseng, 2016, "Production of high-performance and improved-durability Pt-catalyst/support for proton-exchange-membrane fuel cells with pulsed laser deposition", *JOURNAL OF PHYSICS D: APPLIED PHYSICS*, 49, 255601.

Tessera Alemneh Wubieneh, Pai-Chun Wei, Chien-Chih Yeh, Szu-yuan Chen And Yang-Yuan Chen, 2016, "Thermoelectric Properties of Zintl Phase Compounds of $\text{Ca}_{1-x}\text{Eu}_x\text{Zn}_2\text{Sb}_2$ ($0 \leq x \leq 1$)", *JOURNAL OF ELECTRONIC MATERIALS*, 45(3), 1942-1946. (SCI) (IF: 1.491; SCI ranking: 42.4%)

陳應誠 (CHEN, YING-CHENG)

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Yi-Hsin Chen, Ying-Cheng Chen, and Ite A. Yu, accepted, "High-Efficiency Coherent Light Storage for the Application of Quantum Memory", *AAPPS BULLETIN*, 26(5).

Zi-Yu Liu, Yi-Hsin Chen, Yen-Chun Chen, Hsiang-Yu Lo, Pin-Ju Tsai, Ite A. Yu, Ying-Cheng Chen,

and Yong-Fan Chen, 2016, “Large Cross-Phase Modulations at the Few-Photon Level”, *PHYSICAL REVIEW LETTERS*, 117, 203601. (SCI) (IF: 7.645; SCI ranking: 7.6%)

H. H. Jen*, M.-S. Chang, and Y.-C. Chen, 2016, “Cooperative single-photon subradiant states”, *PHYSICAL REVIEW A*, 94, 013803/7p. (SCI) (IF: 2.765; SCI ranking: 18.9%)

Chin-Yuan Lee, Bo-Han Wu, Gang Wang, Yong-Fang Chen, Ying-Cheng Chen, and Ite A. Yu*, 2016, “High conversion efficiency in resonant four-wave mixing processes”, *OPTICS EXPRESS*, 24(2), 1008-1016. (SCI) (IF: 3.148; SCI ranking: 15.6%)

H. H. Jen*, and Y.-C. Chen, 2016, “Spectral shaping of cascade emissions from multiplexed cold atomic ensembles”, *PHYSICAL REVIEW A*, 93, 013811. (SCI) (IF: 2.765; SCI ranking: 18.9%)

陳逸聰 (CHEN, YIT-TSONG)

期刊論文

P.Perumal, R. K. Ulaganathan, R. Sankar, G. Haider, T.-M. Sun, Y.-M. Liao, M.-W. Chu, F. C. Chou, Y.-T. Chen, M.-H. Shih and Y.-F. Chen*, 2016, “Ultra-thin layered ternary single crystals Sn(SxSe1-x)2 with bandgap engineering for high performance photo-transistors on rigid and flexible substrates”, *ADVANCED FUNCTIONAL MATERIALS*, 26, 3630-3638. (SCI) (IF: 11.382; SCI ranking: 4.4%)

U. R. Kumar, Y.-Y. Lu, C.-J. Kuo, S. R. Tamalampudi, R. Sankar, K. M. Boopathi, A. Anand, K. Yadav, R. J. Mathew, F. C. Chou, and Y.-T. Chen*, 2016, “High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors”, *NANOSCALE*, 8, 2284-2292. (SCI) (IF: 7.76; SCI ranking: 8.3%)

S. H. Begum, C.-T. Hung, Y.-T. Chen, S.-J. Huang, P.-H. Wu, X. Han, and S.-B. Liu, 2016, “Acidity-activity correlation over bimetallic iron-based ZSM-5 catalysts during selective catalytic reduction of NO by NH₃”, *JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL*, 423-432.

A. Anand, C.-R. Liu, A.-C. Chou, W.-H. Hsu, U. R. Kumar, Y.-C. Lin, C.-A. Dai, F.-G. Tseng, C.-Y. Pan*, and Y.-T. Chen*, 2016, “Detection of K⁺ efflux from stimulated cortical neurons by an aptamer-modified silicon nanowire field-effect transistor”, *ACS SENSORS*, doi:10.1021/acssensors.6b00505.

S. Banerjee, Y.-J. Hsieh, C.-R. Liu, N.-H. Yeh, Y.-S. Lai, H.-H. Hung, Y.-T. Chen*, and C.-Y. Pan*, 2016, “Differential releases of dopamine and neuropeptide Y from histamine-stimulated PC12 cells detected by an aptamer-modified nanowire transistor”, *SMALL*, 12, 5524-5529. (SCI) (IF: 8.315; SCI ranking: 7.4%)

S. Sucharitakul, U. R. Kumar, R. Sankar, F.-C. Chou, Y.-T. Chen, C. Wang, C. He, R. He, and X. P. A. Gao*, 2016, “Screening limited switching performance of multilayer 2D semiconductor FETs the case for SnS”, *NANOSCALE*, 8, 19050-19057. (SCI) (IF: 7.76; SCI ranking: 8.3%)

學術會議(研討會)論文

Y.-T. Chen, 2016, “Nanowire field-effect transistor-based biosensors: A tool for life science”, paper presented at *CIMTEC 2016, 5th International Conference of Smart and Multifunctional Materials, Structures and Systems & 11th International Conference of Medical Applications of*

Novel Biomaterials and Nanotechnology, Perugia, Italy: National Research Council, 2016-06-05 ~ 2016-06-09.

Y.-Y. Lu, C.-J. Kuo, Srinivasa Reddy Tamalampudi, Raman Sankar, F.-C. Chou, and Y.-T. Chen, 2016, "Optoelectronics and Energy-Related Applications of Two-Dimensional Materials", Rajesh Kumar Ulaganathan", paper presented at *International Nanotechnology Conference & Expo*, Baltimore, USA: Madridge International Conferences, 2016-04-04 ~ 2016-04-06.

Y.-Y. Lu, C.-J. Kuo, Srinivasa Reddy Tamalampudi, Raman Sankar, F.-C. Chou, and Y.-T. Chen, 2016, "High Photosensitivity and Broad Spectral Response of Multi-Layered Germanium Sulfide Transistors", paper presented at *2016 MRS Spring Meeting & Exhibit*, USA, Arizona: Materials Research Society, 2016-03-28 ~ 2016-04-01.

周美吟 (CHOU, MEI-YIN)

期刊論文

Q. Zhang, Y. Chen, C. Zhang, C.-R. Pan, M. Y. Chou, C. Zeng, and C.-K. Shih, 2016, "Band gap renormalization and work function modulation in MoSe₂/hBN/Ru(0001) heterostructures", *NATURE COMMUNICATIONS*, 7, 13843. (SCI) (IF: 11.329; SCI ranking: 4.8%)

P. Chen, Y.-H. Chan, X.-Y. Fang, S.-K. Mo, Z. Hussain, A.-V. Fedorov, M.Y. Chou*, and T.-C. Chiang*, 2016, "Hidden Order and Dimensional Crossover of the Charge Density Waves in TiSe₂", *SCIENTIFIC REPORTS*, 6, 37910. (SCI) (IF: 5.228; SCI ranking: 11.1%)

B. Feng*, Y.-H. Chan, Y. Feng, R.-Y. Liu, M. Y. Chou, K. Kuroda, K. Yaji, A. Harasawa, P. Moras, A. Barinov, W. G. Malaeb, C. Bareille, T. Kondo, S. Shin, F. Komori, T.-C. Chiang, Y. Shi, and I. Matsuda*, 2016, "Spin Texture in Type II Weyl Semimetal WTe₂", *PHYSICAL REVIEW B*, 94(19), 195134. (SCI) (IF: 3.718; SCI ranking: 23.9%)

P. Chen, Y.-H. Chan, M.-H. Wong, X.-Y. Fang, M. Y. Chou, S.-K. Mo, Z. Hussain, A.-V. Fedorov, and T.-C. Chiang*, 2016, "Dimensional Effects on the Charge Density Waves in Ultrathin Films of TiSe₂", *NANO LETTERS*, 16(10), 6331-6336. (SCI) (IF: 13.779; SCI ranking: 2.8%)

F.-W. Chen, M. Y. Chou, Y.-R. Chen, and Y.-S. Wu*, 2016, "Theory of valley-dependent transport in graphene-based lateral quantum structures", *PHYSICAL REVIEW B*, 94(7), 075407. (SCI) (IF: 3.718; SCI ranking: 23.9%)

Y.-H. Chan, Ching-Kai Chiu, M. Y. Chou, and Andreas P. Schnyder, 2016, "Ca₃P₂ and other topological semimetals with line nodes and drumhead surface states", *PHYSICAL REVIEW B*, 93(20), 205132/1-16. (SCI) (IF: 3.718; SCI ranking: 23.9%)

韓肇中 (HAN, CHAU-CHUNG)

期刊論文

Minh D. Pham, Ting-Chun Wen, Hung-Cheng Li, Pei-Hsuan Hsieh, Yet-Ran Chen, Huan-Cheng Chang, and Chau-Chung Han, 2016, "Streamlined Membrane Proteome Preparation for Shotgun Proteomics Analysis with Triton X-100 Cloud Point Extraction and Nanodiamond Solid Phase Extraction", *MATERIALS*, 9(5), 385/17p. (SCI) (IF: 2.728; SCI ranking: 23.2%)

何耀錦 (HO, YE-W-KAM)

期刊論文

- M. K. Pandey, Y.-C. Lin, and Y. K. Ho, accepted, “Effects of weakly coupled and dense quantum plasmas environments on charge exchange and ionization processes in $\text{Na}^+ + \text{Rb}(5s)$ atom collisions”, *EUROPEAN PHYSICAL JOURNAL D*. (SCI) (IF: 1.208; SCI ranking: 64.4%)
- M. K. Pandey, Y.-C. Lin, and Y. K. Ho, 2016, “Classical analysis of angular differential and total cross sections for charge transfer and ionization in He-like systems-Helium atom collisions”, *CHINESE JOURNAL OF PHYSICS*, published online. (SCI) (IF: 0.464; SCI ranking: 89.9%)
- Y. K. Ho and S. Kar, 2016, “High-lying doubly excited resonances in Ps- interacting with screened Coulomb potentials”, *CHINESE JOURNAL OF PHYSICS*, 54, 574-581. (SCI) (IF: 0.464; SCI ranking: 89.9%)
- Ye Ning, Z.-C. Yan and Y. K. Ho, 2016, “Natural and unnatural parity resonance states in the positron-hydrogen system with screened coulomb interactions”, *ATOMS*, 4, 3 (18pp).
- M. K. Pandey, Y.-C. Lin, and Y. K. Ho, 2016, “Positronium formation in positron and alkali-metal atoms (Li, Na, K, Rb, & Cs) collisions in Debye plasma environments”, *JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS*, 49, 034007 (13pp). (SCI) (IF: 1.833; SCI ranking: 42.2%)
- Sabyasachi Kar, Yang Wang, Y. K. Ho, Zishi Jiang, 2016, “Resonant Compton Scattering of Photons by Helium Atoms in Lorentzian Astrophysical Plasmas”, *FEW-BODY SYSTEMS*, 57, 1139-1145. (SCI) (IF: 0.558; SCI ranking: 82.3%)
- Arijit Ghoshal and Yew Kam Ho, 2016, “S-wave resonances below the $\text{Ps}(n=2)$ excitation threshold of the $e^+ \text{-He}$ system embedded in Debye plasma”, *EUROPEAN PHYSICAL JOURNAL D*, 70, 265. (SCI) (IF: 1.208; SCI ranking: 64.4%)

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