

1. M.-K. Li, T.-P. Chen, Y.-F. Lin,* C. M. Raghavan, W.-L. Chen, S.-H. Yang, R. Sankar, C.-W. Luo, [Y.-M. Chang](#), and C.-W. Chen* (2018, Nov). *Intrinsic carrier transport of phase-pure homologous 2D organolead halide hybrid perovskite single crystals*. *Small*, 2018, 1803763.
2. C. M. Raghavan, T.-P. Chen, S.-S. Li*, W.-L. Chen, C.-Y. Lo, Y.-M. Liao, G. Haider, C.-C. Lin, C.-C. Chen, R. Sankar, [Y.-M. Chang](#), F.-C. Chou and C.-W. Chen* (2018, May). *Low-threshold lasing from 2D homologous organic-inorganic hybrid Ruddlesden-Popper perovskite single crystals*. *Nano Letters*, 18, 3221-3228.
3. Y. F. Wang, Y. C. Shao, S. H. Hsieh, Y. K. Chang, P. H. Yeh, H. C. Hsueh*, J. W. Chiou*, H. T. Wang, S. C. Ray, H. M. Tsai, C. W. Pao, C. H. Chen, H. J. Lin, J. F. Lee, C. T. Wu, J. J. Wu, [Y.-M. Chang](#), K. Asokan, K. H. Chae, T. Ohigashi, Y. Takagi, T. Yokoyama, N. Kosugi, and W. F. Pong* (2018, May). *Origin of magnetic properties in carbon implanted ZnO nanowires*. *Scientific Reports*, 8: 7758 | DOI:10.1038/s41598-018-25948-x.
4. W. L. Chen, Y. - -H. Huang, H.-Y. Cheng, T.-R. Kuo*, and [Y.-M. Chang*](#) (2018, Feb). *Statistical analysis of cuboctahedral silver nanocrystals Langmuir-Blodgett film SERS substrate*. *Journal of Raman Spectroscopy*, 2018:1-8. doi:10.1002/jrs.5352 (2018).
5. F.-Y. Lee, Z.-Z. Wu, L.-C. Kao, F.-M. Chang, S.-W. Chen, S.-K. Jang Jian, H.-Y. Cheng, W.-L. Chen, [Y.-M. Chang*](#), and K. Y. Lo* (2017, Oct). *The chemical states and atomic structure evolution of ultralow energy high-dose Boron implanted Si(110) via laser annealing*. *Scientific Reports*, 7, 13022. doi : 10.1038/s41598-017-13415-y.
6. T. Chen, W.-L. Chen, B. J. Foley, J. Lee, J. P. C. Ruff, J. Y. P. Ko, C. M. Brown, L. W. Harriger, D. Zhang, C. Park, M. Yoon, [Y.-M. Chang](#), J. J. Choi, and S.-H. Lee (2017, Jul). *Origin of long lifetime of band-edge charge carriers in organic-inorganic lead iodide perovskites*. *Proceedings of the National Academy of Sciences*, 114(29), 7519-24.
7. H. Li, H.-Y. Cheng, W.-L. Chen, Y.-H. Huang, C.-K. Li, C.-Y. Chang, Y.-R. Wu, T.-C. Lu, and [Y.-M. Chang](#) (2017, Mar). *Three dimensional characterization of GaN-based light emitting diode grown on patterned sapphire substrate by confocal Raman and photoluminescence spectromicroscopy*. *Scientific Reports*, 7, 45519; doi: 10.1038/srep45519.
8. S. Gwo*, C.-Y. Wang, H.-Y. Chen, M.-H. Lin, L. Sun, X. Li, W.-L. Chen, [Y.-M. Chang](#), and H. Ahn (2016, Jun). *Plasmonic metasurfaces for nonlinear optics and quantitative SERS*. *ACS Photonics*, 3, 1371-84.
9. A. C. Gandhi, H.-Y. Cheng, [Y.-M. Chang](#), and J. G. Lin* (2016, Mar). *Size confined magnetic phase in NiO nanoparticles*. *Material Research Express*, 3, 035017.
10. H.-Y. Chen, M.-H. Lin, C.-Y. Wang, [Y.-M. Chang](#), and Shangjr Gwo* (2015, Nov). *Large-Scale Hot Spot Engineering for Quantitative SERS at the Single-Molecule Scale*. *Journal of the American Chemical Society*, 137, 13698-13705.
11. S.-Y. Chen, W.-L. Chen, C.-T. Ko, M.-Y. Lai, F.-C. Li, Y.-Y. Lee, K.-T. Tsai, M.-J. Chen*, [Y.-M. Chang*](#), and Y.-L. Wang* (2015, Nov). *Photoluminescence from quasi-dendritic ZnO nanostructures grown in anodic alumina nanochannels*. *Materials Research Express*, 2, 115004.

12. C.-Y. Wang, H.-Y. Chen, L. Sun, W.-L. Chen, [Y.-M. Chang](#), H. Ahn, X. Li and Shangjr Gwo* (2015, Jun). *Giant Colloidal Silver Crystals for Low-Loss Linear and Nonlinear Plasmonics*. Nature Communications, 6:7734.
13. K.S. Shih, C.C. Chen, P.-T. Chen, Y.-W. Yang, J. D. White, [Y.-M. Chang](#), and A.C.-M. Yang* (2015, Feb). *Photoluminescence of MEH-PPV brushes, pancakes, and free molecules in solutions and dry states*. ACS Photonics, 2, 33-42.
14. W.-H. Lai, A. S. Haynes, L. Frazer, [Y.-M. Chang](#), T.-K. Liu, J.-F. Hsu, I.-C. Liang, H.-S. Sheu, J. B. Ketterson, M. G. Kanatzidis, and K.-F. Hsu* (2015, Jan). *Second harmonic generation response optimized at various optical wavelength ranges through a series of cubic chalcogenides $Ba_6Ag_{2.67+4d}Sn_{4.33-d}S_{16-x}Se_x$* . Chemistry of Materials, 27, 1316-1326.
15. W.-L. Chen, F.-C. Lin, Y.-Y. Lee, F.-C. Li, [Y.-M. Chang](#), and J.-S. Huang* (2014, Sep). *The modulation effect of transverse, antibonding, and higher-order longitudinal modes on the two-photon photoluminescence of gold plasmonic nanoantennas*. ACS Nano, 8(9), 9053-9062.
16. W.-H. Lin, J.-J. Wu*, M. M. C. Chou, [Y.-M. Chang](#), and M. Yoshimura (2014, Aug). *Charge transfer in Au nanoparticle-nonpolar ZnO photocatalysts illustrated by surface-potential-derived three-dimensional band diagram*. Journal of Physical Chemistry C, 118, 19814-19821.
17. W.-L. Chen, Y.-Y. Lee, C.-Y. Chang, H.-M. Huang, T.-C. Lu, and [Y.-M. Chang*](#) (2013, Nov). *Depth-resolved confocal micro-Raman spectroscopy for characterizing GaN-based light emitting diode structures*. Review of Scientific Instruments, 84, 113108.
18. K.-H. Lin*, S.-C. Liou, W.-L. Chen, C.-L. Wu, G.-R. Lin, and [Y.-M. Chang*](#) (2013, Oct). *Tunable and stable UV-NIR photoluminescence from annealed SiO_x with Si nanoparticles*. Optics Express, 21, 23416.
19. D.-Y. Wang, I.-S. Huang, P.-H. Ho, S.-S. Li, Y.-C. Yeh, D.-W. Wang, W.-L. Chen, Y.-Y. Lee, [Y.-M. Chang](#), C.-C. Chen*, C.-T. Liang, C.-W. Chen* (2013, Jun). *Clean-lifting transfer of large-area residual-free graphene films*. Advanced Materials, 25, 4521.
20. S.-M. Kuo, [Y.-M. Chang](#), I. Chung, J.-I. Jang, B.-H. Her, S.-H. Yang, J. B. Ketterson, M. G. Kanatzidis, and K.-F. Hsu* (2013, May). *New metal chalcogenides $Ba_4CuGa_5Q_{12}$ ($Q = S, Se$) displaying strong infrared non-Linear optical response*. Chemistry of Materials, 25, 2427.
21. Y. Wang, S.-S. Li, Y.-C. Yeh, C.-C. Yu, H.-L. Chen, F.-C. Li, [Y.-M. Chang*](#), and C.-W. Chen* (2013). *Interactions between fluorescence of atomically layered graphene oxide and metallic nanopartilces*. Nanoscale, 5, 1687 .