

SHyNE Publications for Calendar Year 2019

Internal User Papers (367)

1. Akpınar, I.; Drout, R. J.; Islamoglu, T.; Kato, S.; Lyu, J.; Farha, O. K., Exploiting π - π interactions to design an efficient sorbent for atrazine removal from water. *ACS applied materials & interfaces* **2019**, *11* (6), 6097-6103.
2. Al Malki, M. M.; Qiu, Q.; Zhu, T.; Snyder, G. J.; Dunand, D. C., Creep behavior and postcreep thermoelectric performance of the n-type half-Heusler alloy Hf_{0.3}Zr_{0.7}NiSn_{0.98}Sb_{0.02}. *Materials Today Physics* **2019**, *9*.
3. Aldrich, T. J.; Matta, M.; Zhu, W. G.; Swick, S. M.; Stern, C. L.; Schatz, G. C.; Facchetti, A.; Melkonyan, F. S.; Marks, T. J., Fluorination Effects on Indacenodithienothiophene Acceptor Packing and Electronic Structure, End-Group Redistribution, and Solar Cell Photovoltaic Response. *Journal of the American Chemical Society* **2019**, *141* (7), 3274-3287.
4. Aldrich, T. J.; Zhu, W. G.; Mulcherjee, S.; Richter, L. J.; Gann, E.; DeLongchamp, D. M.; Facchetti, A.; Melkonyan, F. S.; Marks, T. J., Stable Postfullerene Solar Cells via Direct C-H Arylation Polymerization. Morphology-Performance Relationships. *Chemistry of Materials* **2019**, *31* (11), 4313-4321.
5. Allen, S. D.; Liu, Y. G.; Kim, T.; Bobbala, S.; Yi, S. J.; Zhang, X. H.; Choi, J.; Scott, E. A., Celastrol-loaded PEG-b-PPS nanocarriers as an anti-inflammatory treatment for atherosclerosis. *Biomaterials Science* **2019**, *7* (2), 657-668.
6. Alzate-Sánchez, D. M.; Ling, Y.; Li, C.; Frank, B. P.; Bleher, R.; Fairbrother, D. H.; Helbling, D. E.; Dichtel, W. R., β -Cyclodextrin Polymers on Microcrystalline Cellulose as a Granular Media for Organic Micropollutant Removal from Water. *ACS applied materials & interfaces* **2019**, *11* (8), 8089-8096.
7. Alzola, J. M.; Powers-Riggs, N. E.; La Porte, N. T.; Young, R. M.; Marks, T. J.; Wasielewski, M. R., Photoinduced electron transfer from zinc meso-tetraphenylporphyrin to a one-dimensional perylene diimide aggregate: Probing anion delocalization effects. *Journal of Porphyrins and Phthalocyanines* **2019**, 1-10.
8. Amsterdam, S. H.; Stanev, T. K.; Zhou, Q.; Lou, A. J.-T.; Bergeron, H.; Darancet, P.; Hersam, M. C.; Stern, N. P.; Marks, T. J., Electronic Coupling in Metallophthalocyanine-Transition Metal Dichalcogenide Mixed-Dimensional Heterojunctions. *ACS nano* **2019**, *13* (4), 4183-4190.
9. An, D.; Baik, S. I.; Pan, S. Y.; Zhu, M. F.; Isheim, D.; Krakauer, B. W.; Seidman, D. N., Evolution of Microstructure and Carbon Distribution During Heat Treatments of a Dual-Phase Steel: Modeling and Atom-Probe Tomography Experiments. *Metallurgical and Materials Transactions a-Physical Metallurgy and Materials Science* **2019**, *50A* (1), 436-450.
10. Anferov, A.; Suleymanzade, A.; Oriani, A.; Simon, J.; Schuster, D. I., Millimeter-Wave Four-Wave Mixing via Kinetic Inductance for Quantum Devices. *arXiv preprint arXiv:1909.01487* **2019**.
11. Anni, M.; Rhee, D.; Lee, W.-K., Random lasing engineering in poly-(9-9-dioctylfluorene) active waveguides deposited on wrinkles corrugated surfaces. *ACS applied materials & interfaces* **2019**, *11* (9), 9385-9393.
12. Antonov, S.; Chen, W.; Lu, S.; Isheim, D.; Seidman, D. N.; Feng, Q.; Sun, E.; Tin, S., The effect of phosphorus on the formation of grain boundary laves phase in high-refractory content Ni-based superalloys. *Scripta Materialia* **2019**, *161*, 44-48.
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14. Ao, X.; Wang, D.; Odom, T. W., Enhanced Fields in Mirror-Backed Low-Index Dielectric Structures. *ACS Photonics* **2019**, *6* (11), 2612-2617.
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17. Bae, Y. J.; Christensen, J. A.; Kang, G.; Zhou, J. W.; Young, R. M.; Wu, Y. L.; Van Duyne, R. P.; Schatz, G. C.; Wasielewski, M. R., Substituent effects on energetics and crystal morphology modulate singlet fission in 9,10-bis(phenylethynyl)anthracenes. *Journal of Chemical Physics* **2019**, *151* (4).
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