

1: Zhang Research Group

Cover Articles. *Self-Templated Fabrication of CoO-MoO₂ Nanocages for Enhanced Oxygen Evolution*, *Adv. Funct. Mater.* , 27, (No.) *Phase-controllable synthesis of cobalt hydroxide for electrocatalytic oxygen evolution*, *Dalton Trans.* , 46, -

Exacerbation of diabetes-induced testicular apoptosis by zinc deficiency is most likely associated with oxidative stress; p38 MAPK activation; and p53 activation in mice. A comprehensive peak alignment algorithm for two-dimensional gas chromatography time-of-flight mass spectrometry. Comparison of spectral similarity measures for compound identification. Statistical analysis of gas chromatography retention index database. Briefings in Bioinformatics , 12, Artificial neural networks for the prediction of peptide drift time in ion mobility mass spectrometry. BMC Bioinformatics , Multi-dimensional liquid chromatography in quantitative proteomics. *Chimica Acta* , , "The Proteome Discovery Pipeline" A data analysis pipeline for mass spectrometry-based differential proteomics discovery. *The Open Proteomics Journal* , 3, "Prediction of drift time in ion mobility-mass spectrometry based on peptide molecular weight. Radial basis function neural network ensemble for predicting protein-protein interaction sites in heterocomplexes. Evolutionary computation applications in current bioinformatics. Optimal selection of support vector regression parameters and molecular descriptors for retention indices prediction. Multiple linear regression for peptides drift time prediction. Computational approaches to peptide retention time prediction for proteomics. Chen, Stefano Lonardi, "Mass informatics in differential proteomics. A , , "BMC Systems Biology , 2: A hierarchical statistical model to assess the confidence of peptide and protein identifications made by tandem mass spectrometry. *Bioinformatics* , 24, "BMC Medical Genomics , 1: Inside the personalized medicine toolbox: *Aquatic Toxicology* , 88, "Neural network prediction of peptide behavior in strong anion exchange chromatography. *Bioinformatics* , 23, "Current status of computational approaches for protein identification using tandem mass spectra. *Current Proteomics* , 4, "Effects of hindlimb unloading and bisphosphonates on the serum proteome of rats. *Bone* , 41, "A method for the identification of glycoproteins from human serum by a combination of lectin affinity chromatography along with anion exchange and Cu-IMAC selection of tryptic peptides. *B* , , "The Open Spectroscopy Journal , 1, "8. Tracing lineage beyond relational operators. Performance evaluation of existing de novo sequencing algorithms. In-gel stable isotope labeling: In-gel stable isotope labeling for relative quantification using mass spectrometry. *Nature Protocols* , 1, "Bioinformatics , 21, "An automated method for the analysis of stable isotope labeling data for proteomics. Methods for the differential integrative omics analysis of plasma from a transgenic disease animal model. *A Journal of Integrative Biology* , 8, "A Journal of Integrative Biology , 8, "Quantitative proteomics strategy involving the selection of peptides containing both cysteine and histidine from tryptic digests of cell lysates. A picoliter volume mixer for microfluidic analytical systems. Proteomics of glycoproteins based on affinity selection of glycopeptides from tryptic digests. Multidimensional chromatography and the signature peptide approach to proteomics. Distribution of trace elements in normal and tumor-bearing mice using the multitracer technique. *Biological Trace Element Research* , 81, "Strategy for qualitative and quantitative analysis in proteomics based on signature peptides. The excretion of biotrace elements using the multitracer technique in tumor-bearing mice. *Applied Radiation and Isotopes* , 53, "Projectile-mass dependence of the linear momentum transfer in central collisions. Excretion of biotrace elements using the multitracer technique in mice. Adsorption study of 47 elements on alumine and bentonite using a multitracer technique. *Adsorption Science and Technology* , 15, "Production of hafnium nuclides in the reactions of ⁶Li. *Acta* , 75, "Multitracer technique and prospects of its application. Production of hafnium isotopes from interaction of ^{nat}W with ⁶Li. *Radiochem* , 18, "Acta , 72, "Mass yield distribution in intermediate energy heavy ion reactions. Isotopic distributions of Hf from the interaction of heavy ions with ^{nat}W. A new heavy neutron-rich isotope Pa. Study on the adsorption behavior of fission products on mud and sand in Yellow River using multitracer.

2: Ying Zhang “ Research Output ” Johns Hopkins University

Am J Cardiol. Jun 15;(12) doi: /www.enganchecubano.comd Epub Apr Effect of Xuezhikang, an extract from red yeast Chinese rice, on coronary events in a Chinese population with previous myocardial infarction.

Carbohydrate active enzymes CAZymes: They are also the most important enzymes used for biomass formation and degradation to produce biofuels. We identify these enzymes in plants, algae, microbes and environmental metagenomes and do comparative analysis. Database and web servers: We also build bioinformatics tools, servers and databases for other important industrial enzymes Evolutionary genomics: For more information, see our lab webpage at: Genome Announc 4 3: Bioenergy Research, DOI Genome Announcements, 2 3: Plant Cell, Oct;25 Plos ONE, Nov 20;8 Chapter 6 of Bioenergy Research: Genome-scale identification of cell-wall related genes in Arabidopsis based on co-expression network analysis. Genomic arrangement of regulons in bacterial genomes. Epub Jan 3. Evolution of plant nucleotide-sugar interconversion enzymes. Epub Nov Evolution and function of the plant cell wall synthesis-related glycosyltransferase family 8. Epub Jun 3. Genomic arrangement of bacterial operons is constrained by biological pathways encoded in the genome. Epub Mar Epub Aug Syringyl lignin biosynthesis is directly regulated by a secondary cell wall master switch. Epub Jul The cellulose synthase superfamily in fully sequenced plants and algae. A bioinformatic analysis of NAC genes for plant cell wall development in relation to lignocellulosic bioenergy production. Identification and investigation of ORFans in the viral world. Yin Y, Fischer D. On the origin of microbial ORFans:

3: Wu Research Lab - Publication

1: Xia S, Wei J, Wang J, Sun H, Zheng W, Li Y, Sun Y, Zhao H, Zhang S, Wen T, Zhou X, Gao JX, Wang P, Wu Z, Zhao L, Yin Z. A requirement of dendritic cell-derived interleukin for the tumor infiltration of regulatory T cells.

C, , 1, Rotating Photonic Crystals, J. ACS Nano, , 2, Synthesis, Characterization, and Applications, Adv. Photocatalytic reversible color switching based on titania nanoparticles, Small Methods, , 2, Optical tuning by self-assembly and disassembly of chain-like plasmonic superstructures, Natl. Expand All Interfacial solar heating by self-assembled Fe₃O₄ C film for steam generation, Mater. Inflating hollow nanocrystals through a repeated Kirkendall cavitation process, Nat. Photocatalytic self-doped SnO_{2-x} nanocrystals drive visible light-responsive color switching Angew. Phase-controllable synthesis of cobalt hydroxide for electrocatalytic oxygen evolution, Dalton Trans. Construction of Au-Pd alloy shells for enhanced catalytic performance toward alkyne semihydrogenation reactions, Mater. Photocatalytic color switching of transition metal hexacyanometalate nanoparticles for high-performance light-printable rewritable paper, Nano Lett. Holey Au-Ag alloy nanoplates with built-in hotspots for surface-enhanced Raman scattering, Nanoscale, , 8, A, , 4, Interfaces, , 8, Today, , , A, , 3, Silica Microspheres with Fibrous Shells: Interfaces, , 7, Magnetic assembly and field-tuning of ellipsoid-nanoparticle-based colloidal photonic crystals, Angew. Small, , 11, Magnetochromatic Thin-Film Microplates, Adv. Thermal Synthesis of Silver Nanoplates Revisited: Facet Selectivity of Ligands on Silver Nanoplates: Molecular Mechanics Study, J. C, , , Composite Titanium Dioxide Nanomaterials, Chem. Promotion of atomic hydrogen recombination as an alternative to electron trapping for the role of metals in the photocatalytic production of H₂, Proc. Thermodynamic controlled synthesis of intermetallic Au₃Cu alloy nanocrystals from Cu microparticles, J. A, , 2, Zhang, Q and Yin, Y. C, , A, , 1, Interfaces, , 5, C, , 1, Tailored synthesis of mesoporous TiO₂ hollow nanostructures for catalytic applications, Energy Environ. Ship in a Bottle: Today, , 16, A, , 1, - Toward an Efficient Photocatalyst, Adv. Correlating the excited state relaxation dynamics as measured by photoluminescence and transient absorption with the photocatalytic activity of Au TiO₂ core-shell nanostructures. Core-Shell Nanostructured Catalysts, Acc. Role of Nanocrystal Size, Nanoscale, , 5, The chemistry of functional nanomaterials, Chem. Templated Synthesis of Nanostructured Materials, Chem. Functional Materials by Design, Chem. Chem, , 13, Is Citrate a "Magic" Reagent? Lee, I; Albitar, M. Zhang, Q; Joo, J. Lee, I; Zhang, Q. Wang, Y; Hu, Y. C, , , "â€"

4: Nie Group at UMD

Dr. Yin received his Ph.D degree focusing on ultrafast lasers and optics from The Pennsylvania State University in May, and his B.S. in Applied Physics in July, from Shandong University, China.

Whitesides, Electrochemical sensing in paper-based microfluidic devices , *Lab Chip* , 10, Kumacheva, Properties and emerging applications of self-assembled structures made from inorganic nanoparticles , *Nat. Shik*, Plasmon spectra in two-dimensional nanorod arrays , *Nanotech.* Nie co-first author , A. Kumacheva, A microfluidic approach to chemically driven assembly of colloidal particles at gas-liquid interfaces , *Angew. Stone*, Emulsification in microfluidic flow-focusing device: Kumacheva, Patterning surfaces with functional polymers , *Nat.* Kumacheva, Evolution of self-assembled structures of polymer-terminated gold nanorods in selective solvents , *Adv.* Kumacheva, Multi-step microfluidic polymerization reactions conducted in droplets: Kumacheva, Microfluidic synthesis of macroporous copolymer particles , *Macromolecules* , 41, Kumacheva, Microfluidic consecutive flow-focusing droplet generators , *Soft Matter.* Kumacheva, Screening of the effect of surface energy of microchannels on microfluidic emulsification , *Langmuir* , 23, Kumacheva, Janus and ternary particles generated by microfluidic synthesis: Design, synthesis, and self-assembly , *J.* Kumacheva, Microfluidic production of biopolymer microcapsules with controlled morphology , *J.* Kumacheva, Polymer particles with various shapes and morphologies produced in continuous microfluidic reactors , *J. Whitesides* Generation of monodisperse particles by using microfluidics: Control over size, shape, and composition , *Angew.* Kumacheva, Continuous microfluidic reactors for polymer particles , *Langmuir* , 21, Kumacheva, Continuous synthesis of copolymer particles in microfluidic reactors , *Macromolecules* , 38, An, A Monte Carlo simulation of morphology and structure for thin films of symmetric triblock copolymer after quenching and annealing, *Chin. Book Chapter* Zhang, H. Whitesides, *Systems and Methods of Forming Particles.* Whitesides, *Soft Robotic Actuators*, U.

5: My Details | CREOL, The College of Optics & Photonics at the University of Central Florida

Yu J, Wu G, Jurick WM, Jr, Gaskins VL, Yin Y, Yin G, Bennett JW, Shelton DR. () Genome sequence of *Penicillium solitum* RS1, which causes postharvest apple decay. () Genome sequence of *Penicillium solitum* RS1, which causes postharvest apple decay.

Current Opinion in Systems Biology. Cancer Epidemiol Biomarkers Prev. Expert Opinion On Drug Discovery. Genome Biology and Evolution. Masaomi K, kashem A, Cheng C. Int J Clin Exp Pathol. Integrated Drug Expression Analysis - Integration of gene expression and clinical data for the identification of therapeutic candidates. A method to characterize the cooperative logic of regulatory factors. Loros J, Dunlap J. An orthology-based network framework for clustering data across multiple species. Journal of Machine Learning Research. A database of phenotype-specific regulatory programs derived from transcription factor binding data. Regulatory activity inference of transcription factors underlying human diseases with application to breast cancer. Yang C, Buck J. A match meant to be? Cheng C, Gerstein M. Cheng C, Li LM. Int J Biochem Cell Biol. Plasma DNA as a surrogate for tumor biopsy to identify genetic alterations in patients with metastatic breast cancer. Cancer Research ;76 4: Application of machine-learning methods to understand gene expression regulation. Integrative analysis identifies transcription factor-DNA methylation relationships and introduces new avenues for translating cancer epigenetics into the clinic. Edited by Wei Wu and Hani Choudhry. From transcription factor binding and histone modification to gene expression: Cambridge University Press, Edited by George C. Differentiation detection in microarray normalization. Department of Mathematics, University of Southern California,

6: Faculty website for Yanbin Yin, Department of Biological Sciences

"Enhanced high-order harmonic generation driven by a wavefront corrected high-energy laser".

7: Publication - Yin Group!

Kuang DM, Zhao Q, Wu Y, Peng C, Wang J, Xu Z, Yin XY, Zheng L Peritumoral neutrophils link inflammatory response to disease progression by fostering angiogenesis in hepatocellular carcinoma.

8: Publications " Dr. Xiang Zhang Lab

J Yin, Y Li, Y Wu*, Near-net-shape Processed ZnS Ceramics by Aqueous Casting and Pressureless Sintering, *Ceramics International* 42 (9), , Yin, Jie, Yin Liu, Yiquan Wu*. Three-step Densification of Monolithic SiC Ceramics by Spark Plasma Apparatus without Sintering Additives.

9: Publications | Huang Group

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Violence, society and the sacred. In the backwash of war The No Child Left Behind Act, control of the internet, and other current controversies. Studies in Light in August Sothebys guide to American folk art Innovative Technologies in Urban Storm Drainage 1998 (NOVATECH98) Exercise and immunology Amend a ument to put a text box Language and history in early England Push by sapphire Conditions associated with imbalances 1969 camaro service manual 1952 chevy truck shop manual The Powers That Be: Part II The school playground Case studies in sport communication Mta 98-365 book Learn french in one month The Shaped-Jewel Hunt (Backyardigans, the) Jane Austen Her Life And Letters A Family Record PowerSculpt For Men Inkeles, A. Clyde Kluckhohns contribution to studies of Russia and the Soviet Union. Eagle scout project workbook 2018 Ogilvy on advertising People at the Center of The War of 1812 (People at the Center of) Financial Report of the United States Abelian varieties with complex multiplication and modular functions The Physics of Thin Film Optical Spectra Types of capital structure theories Southern Homemade Ford fiesta mk5 workshop manual Fair Labor Standards Act. Mensa All-Color Puzzle Book 2 Old-English phonology Attention, expressive power, and interest in life : Wordsworths / The danger of a single story Ravindra singh novels A Handbook To The Public Picture Galleries Of Europe Basic contracts and checklists for petroleum marketing Furniture shop: an arts and crafts workshop in San Francisco (1906-1920 Kenneth R. Trapp