

## CURRICULUM VITAE

### JIXIN CHEN

Associate Professor

Ohio University

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Nationality: USA citizen.

### EDUCATION

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- **Ph.D.**, Chemistry, **Texas A&M University** at College Station, TX, May **2010**  
Dissertation: Nanofabrication, Plasmon Enhanced Fluorescence and Photo-Oxidation Kinetics of CdSe Nanoparticles.  
Advisors: Prof. Paul Cremer and Prof. James Batteas
- **M.S.**, Chemistry, **Nankai University** at Tianjin, China, June **2002**  
Dissertation: Synthesis, Characterization, and Catalytic Application of Microporous Zeolites.  
Advisor: Prof. Naijia Guan
- **B.S.**, Chemistry, **Nankai University** at Tianjin, China, June **1999**  
Thesis: Oxygen Temperature-Programed Deposition (O<sub>2</sub>-TPD) Characterization of ZSM-5 Zeolite.  
Advisor: Prof. Naijia Guan

Academic Tree: <https://academictree.org/chemistry/tree.php?pid=109715>

### PROFESSIONAL EXPERIENCE

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- 08/2020 – present: **Ohio University** at Athens, OH, Associate Professor of Chemistry.
- 08/2014 – 08/2020: **Ohio University** at Athens, OH, Assistant Professor of Chemistry.  
*Teaching:* Physical Chemistry.  
*Research:* Single molecular/particle microscopy, photochemical kinetics, materials science.
- 07/2012 - 07/2014: **Rice University** at Houston, TX, Postdoctoral Research Associate  
Supervisor: Prof. Christy F. Landes.  
*Single-molecule spectroscopy:* Experimental studies on molecular interactions. Development of super-resolution microscopy mbPAINT. Single-molecule Förster resonance energy transfer (smFRET) for the folding/unfolding dynamics of TAR-DNA hairpin of human immunodeficiency virus (HIV).
- 07/2010 - 07/2012: **University of Wisconsin-Madison**, WI, Postdoctoral Research Associate  
Supervisor: Prof. Robert J. Hamers.  
*Photovoltaic devices:* Surface functionalization, characterization, device fabrication and testing of TiO<sub>2</sub> nanocrystalline film and ZnO films.
- 09/2005 - 07/2010: **Texas A&M University** at College Station, TX, Graduate Research Assistant  
Co-Advisors: Prof. Paul S. Cremer & Prof. James D. Batteas.  
*Nanofabrication:* Development and mechanistic study of platforms, such as AFM lithography, self-assembly of quantum dots, and confocal laser lithography of quantum dots for biosensing applications. Mechanism of plasmon interaction between quantum dots metal nanoparticles, and photo-oxidation kinetics of quantum dots.
- 06/2002 - 06/2005: **Nankai University** at Tianjin, China, Research Scientist and Lab Manager,

Supervisor: Prof. Naijia Guan.

- 09/1999 - 06/2002: **Nankai University** at Tianjin, China, Graduate Research Assistant  
Advisor: Prof. Naijia Guan.  
*Nano-synthesis for catalysis*: Synthesis of zeolites and metal oxide nanoparticles for photocatalytic degradation of pollutants in water (Figure o) and deNO<sub>x</sub> (cleaning) of car exhaust.

### Key scientific contributions:

- Train graduate and undergraduate students in various fields including chemistry especially surface chemistry, biotechnology especially spectroscopies and microscopies, and materials science related to polymers, ceramic, thin films, nanoparticles, and devices.
- Develop kinetic models and algorithms for various problems such as COVID-19 spreading kinetics, biosensing, energy related devices, diffusion and adsorption, and surface chemical reactions.

## TEACHING EXPERIENCE

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Ohio University:

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2022 spring	CHEM <b>4540 (PChem II)</b> , <b>4540L (PChem lab II)</b> , 4940, 6950, 8950
2021 fall	CHEM <b>7950 (Graduate PChem)</b> , 4941, 6950, 8915, 8950, 8980
2021 spring	CHEM <b>4540 (PChem II)</b> , <b>4540L (PChem lab II)</b> , 4940, 6950, 8950
2020 fall	CHEM <b>3510 (General PChem)</b> , 4940, 5920, 8900, 8950, 8980
2020 summer	CHEM <b>5510 (online MS PChem)</b>
2020 spring	CHEM <b>4540</b> , 5920, 6950, 8900, 8950
2019 fall	CHEM <b>4510/5510 (PChem I)</b> , 5920, 6950, 8900, 8950
2019 summer	CHEM <b>5510 (online PChem)</b>
2019 spring	CHEM <b>4540L (PChem lab II)</b> , 5920, 6950, 8900, 8950
2018 fall	CHEM <b>3510/5510 (General PChem)</b> , 4940H, 5920, 6950, 8915, 8980
2018 spring	CHEM <b>7950 (Graduate PChem)</b> , 6950, 8950
2017 fall	CHEM <b>3510/5510 (General PChem)</b> , HTC, 8950, 8980
2017 spring	CHEM 4940H, 6950, 8950, 8980
2016 fall	CHEM <b>4530L (PChem lab I)</b> , <b>7950 (Graduate Pchem)</b> , 6950, 8980
2016 spring	CHEM <b>4540L (PChem lab II)</b> , 4950, 6950
2015 fall	CHEM <b>4530L/5530L (PChem Lab I)</b> , 6950
2015 spring	CHEM 6950
2014 fall	CHEM <b>4530/5530 (PChem I)</b> , <b>4530L(1/2) (PChem lab I)</b> , <b>7950(1/3) (Graduate PChem)</b>

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Note:

**bolded**: teaching lecture and labs (co instructor load)

non-bolded: seminar, workshops, and research instructions. 49xx undergraduate research, 59xx graduate TA supervising, 69xx graduate research, 89xx graduate research or seminar

Before Ohio University:

Graduate Teaching Assistant at Texas A&M University and Nankai University for Chemistry Courses.

## GRANTS AND AWARDS

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### Grants:

1. **(Funded)** Super-Resolution Optical Mapping for DNA Analysis Using Triplex-Forming Oligonucleotides as Stochastic Molecular Probes (renew), **NIH**, 2022, PI, \$448,094 (PI)

2. **(Funded)** MRI: Acquisition of A Matrix-Assisted Laser Desorption/Ionization Time-Of-Flight Mass Spectrometer to Enhance Research and Education. **NSF**, 2020, \$315,000 (co-PI)
3. **(Funded)** Spectrometer for Education and Research in Forensic Chemistry. Ohio University 1804 internal grant, 2019, \$65,989 (co-PI)
4. **(Funded)** Super-Resolution Optical Mapping for DNA Analysis Using Triplex-Forming Oligonucleotides as Stochastic Molecular Probes, **NIH**, 2018, PI, \$451,682 (PI)
5. **(Funded)** Ohio University OURC award, internal grant, 2015, \$8,000 (PI)

**Other awards:**

- **2019** Ohio University NQPI Research Challenge Award, internal grant \$2,500
- **2018** Ohio University HTC Research Apprenticeship Award, internal grant \$3,000
- **2017** Ohio University NQPI Research Challenge Award, internal grant \$2,500
- **2016** Ohio University NQPI Research Challenge Award, internal grant \$2,500
- **2015** Ohio University HTC Pilot Research Apprenticeship Award, internal grant \$3,000
- **2014** Ohio University **Startup Fund**, \$290,000

Before joining Ohio University

- **2010** Dow Chemical Graduate Fellowship Award, Texas A&M University
- **2009** E. Martell Travel Award, Texas A&M University
- **2009** Graduate Student Research and Presentation Travel Award, Texas A&M University
- **2007** Graduate Teaching Award, Department of Chemistry, Texas A&M University
- **2006** Graduate Teaching Award: Recognizing *Excellence in Education*, Department of Chemistry, Texas A&M University

**PUBLICATIONS**

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List and citations available at: <http://scholar.google.com/citations?user=uqn7kcgAAAAJ>  
(H-index = 30 google scholar)

**PEER-REVIEWED ARTICLES**

**Selected list at Ohio University:**

Chemistry education:

Journal of Chemical Education 2022. <https://doi.org/10.1021/acs.jchemed.2c00416>

ACS Omega 2021. <https://doi.org/10.1021/acsomega.1c04842>

Theoretical

JPCA 2022. <https://doi.org/10.1021/acs.jpca.2c07500>

AIP Advances 2022. <https://doi.org/10.1063/5.0064140>

ACS Omega 2018. <https://doi.org/10.1021/acsomega.8b01725>

JPCB 2016. <https://doi.org/10.1021/acs.jpca.6b05697>

JPCL 2014: <https://doi.org/10.1021/jz501435p>

Biophysics and Photophysics:

JPCB 2023. <https://doi.org/10.1021/acs.jpca.3c00777>

Nature Commun 2022. <https://doi.org/10.1038/s41467-022-33023-3>

Langmuir 2019. <https://doi.org/10.1021/acs.langmuir.9b01822>

JPPA. 2018. <https://doi.org/10.1016/j.jphotochem.2018.09.012>

BJNano. 2017. <https://doi.org/10.3762/bjnano.8.229>

JPCB 2014. <https://doi.org/10.1021/jp507067p>

Materials science:

ChemPhysChem 2022. <https://doi.org/10.1002/cphc.202200022>

J. Energ. Chem. 2022. <https://doi.org/10.1016/j.jechem.2021.08.046>

JPCL 2020. <https://doi.org/10.1021/acs.jpcllett.9b03734>

ACS AMI 2019. <https://doi.org/10.1021/acsami.9b03822>

Langmuir 2012. <https://doi.org/10.1021/la301347t>

JACS 2009. <https://doi.org/10.1021/ja906837s>

ACS Nano 2009. <https://doi.org/10.1021/nn800568t>

J. Catal. 2005. <https://doi.org/10.1016/j.jcat.2005.04.014>

### Full list after joining Ohio University

1. Hanbin Mao, Jixin Chen. Quality Research Follows the Power Law. *Journal of Scientometric Research* 2023, 12(3), 1-16. In press
2. Dinesh Gautam, Srijana Pandey, Jixin Chen. Effect of Flow Rate and Ionic Strength on the Stabilities of YOYO-1 and YO-PRO-1 Intercalated in DNA Molecules. *J. Phys. Chem. B* 2023, 127, 11, 2450–2456. <https://doi.org/10.1021/acs.jpccb.3c00777>
3. Jixin Chen. Why Should the Reaction Order of a Bimolecular Reaction be 2.33 Instead of 2? *The Journal of Physical Chemistry A* 126 (51), 9719-9725. <https://doi.org/10.1021/acs.jpca.2c07500>
4. Jixin Chen. Simulating stochastic adsorption of diluted solute molecules at interfaces. *AIP Advances* 2022, 12, 015318. <https://doi.org/10.1063/5.0064140>
5. Annik Bernhardt, Tharushi D Ambagaspiya, Martin E Kordesch, Katherine Leslee A Cimatu, Jixin Chen. In-situ ellipsometry measurements on the halide phase segregation of mixed halide lead perovskites. *ChemPhysChem* 2022, e202200022 <https://doi.org/10.1002/cphc.202200022> .
6. Markus Götz, Anders Barth, Søren S-R Bohr, Richard Börner, Jixin Chen, Thorben Cordes, Dorothy A Erie, Christian Gebhardt, Mélodie CAS Hadzic, George L Hamilton, Nikos S Hatzakis, Thorsten Hugel, Lydia Kiskey, Don C Lamb, Carlos de Lannoy, Chelsea Mahn, Dushani Dunukara, Dick de Ridder, Hugo Sanabria, Julia Schimpf, Claus AM Seidel, Roland KO Sigel, Magnus Berg Sletfjerd, Johannes Thomsen, Leonie Vollmar, Simon Wanninger, Keith R Weninger, Pengning Xu, Sonja Schmid. A blind benchmark of analysis tools to infer kinetic rate constants from single-molecule FRET trajectories. *Nature Communications*, 2022, 13, 5402. <https://doi.org/10.1038/s41467-022-33023-3>
7. Dylan Smith, Kristin Lauro, Dymond Kelly, Joel Fish, Emma Lintelman, David McEwen, Corrin Smith, Max Stecz, Tharushi Ambagaspiya, Jixin Chen. Teaching undergraduate physical chemistry lab with kinetic analysis of COVID-19 in the United States. *Journal of Chemical Education*, 2022, <https://doi.org/10.1021/acs.jchemed.2c00416>
8. Juvinch R. Vicente, Wojciech M. Jadwisienczak, Savas Kaya, Jixin Chen. Influence of Lead Source on the Film Morphology of Perovskites Spin-Coated on Planar and Mesoporous Architectures under Ambient Conditions. *J. Electr. Mater.* 2022, 51, 1623-1631. <https://doi.org/10.1063/5.0064140>
9. Juvinch R Vicente, Martin E Kordesch, Jixin Chen\*, Stabilization of mixed-halide lead perovskites under light by photothermal effects. *Journal of Energy Chemistry*, 2021, 63, 8-11. <https://doi.org/10.1016/j.jechem.2021.08.046>

10. Kelle Hart, Chelsea Thompson, Clay Burger, Dylan Hardwick, Amanda Michaud, Abdul H.M. Al Bulushi, Cole Pridemore, Carson Ward, Jixin Chen\*, Remote Learning of COVID-19 Kinetic Analysis in a Physical Chemistry Laboratory Class. *ACS Omega*, 2021, 6(43), 29223–29232. <https://doi.org/10.1021/acsomega.1c04842>
11. Juvinch R Vicente, Jixin Chen\*, Phase Segregation and Photothermal Remixing of Mixed-Halide Lead Perovskites. *The Journal of Physical Chemistry Letters*, 2020, 11, 1802-1807. <https://pubs.acs.org/doi/abs/10.1021/acs.jpcllett.9b03734>
12. Ming-Ho Liu, Tzu-Chun Chen, Juvinch R Vicente, Chun-Nien Yao, Yu-Chi Yang, Chuan-Pin Chen, Pin-Wen Lin, Yu-Chieh Ho, Jixin Chen, Shu-Yi Lin, Yang-Hsiang Chan, Cyanine-Based Polymer Dots with Long-Wavelength Excitation and Near-Infrared Fluorescence beyond 900 nm for In Vivo Biological Imaging. *ACS Applied Bio Materials*, 2020, 3, 3846–3858. <https://pubs.acs.org/doi/abs/10.1021/acsabm.0c00417>
13. Wei-Kai Tsai, Chun-I Wang, Chia-Hsien Liao, Tsai-Jhen Kuo, Ming-Ho Liu, Cho-Ping Hsu, Shu-Yi Lin, Chang-Yi Wu, Joseph R. Pyle, Jixin Chen, Yang-Hsiang Chan. Molecular Design of Near-Infrared Fluorescent Pdots for Tumor Targeting: Aggregation-Induced Emission versus Anti-Aggregation-Caused Quenching. *Chemical Science*, 2019, 10, 198-207. <https://pubs.rsc.org/en/Content/ArticleLanding/2018/SC/C8SC03510E#!divAbstract>
14. Juvinch R. Vicente, Ali Rafiei Miandashti, Kurt Sy Piecco, Joseph R. Pyle, Martin E. Kordesch, Jixin Chen\*, Single-Particle Organolead Halide Perovskite Photoluminescence as a Probe for Surface Reaction Kinetics. *ACS Applied Materials & Interfaces*, 2019, 11(19), 18034-18043. <https://pubs.acs.org/doi/10.1021/acsmi.9b03822>
15. Joseph R. Pyle, Kurt Waldo E. Sy Piecco, Juvinch R. Vicente, Jixin Chen\*, In-situ Sensing of Reactive Oxygen Species on Dye-Stained Single DNA Molecules under Illumination. *Langmuir*, 2019, 35, 11308-11314. <https://doi.org/10.1021/acs.langmuir.9b01822>
16. William Lum, Dinesh Gautam, Jixin Chen, Laura B. Sagle, Single Molecule Protein Patterning Using Hole Mask Colloidal Lithography. *Nanoscale*, 2019, 11, 16228-16234. <https://pubs.rsc.org/en/content/articlelanding/2019/nr/c9nr05630k/unauth#!divAbstract>
17. Kurt Waldo E. Sy Piecco, Juvinch R. Vicente, Joseph R. Pyle, David C. Ingram, Martin E. Kordesch, Jixin Chen\*, Reusable Chemically-Micropatterned Substrates via Sequential Photoinitiated Thiol-Ene Reactions as Template for Perovskite Thin-Film Microarrays. *ACS Appl. Electron. Mater.* 2019, 1, 2279-2286. <https://pubs.acs.org/doi/abs/10.1021/acsaelm.9b00475>
18. Kurt W. Sy Piecco, Ahmed M. Aboelenen, Joseph R. Pyle, Juvinch R. Vicente, Dinesh Gautam, Jixin Chen\*, Kinetic Model under Light-limited Condition for Photo-Initiated Thiol-Ene Coupling Reactions. *ACS Omega*, 2018, 3(10), 14327-14332. <https://pubs.acs.org/doi/10.1021/acsomega.8b01725>
19. Jeeranan Nonkumwong, Kurt W. Sy Piecco, Uvinduni I. Premadasa, Ahmed M. Aboelenen, Andrew Tangonan, Jixin Chen, Laongnuan Srisombat, Katherine, L. A. Cimat, Successive Surface Reactions on Hydrophilic Quartz for Modified Magnetic Nanoparticle Attachment Probed by Sum Frequency Generation Spectroscopy. *Langmuir*, 2018, 34(43), 12680-12693. <https://pubs.acs.org/doi/10.1021/acs.langmuir.8b01333>
20. Juvinch R. Vicente, Jixin Chen\*, Perovskite Solar Cells. *Encyclopedia of Chemical Processing*. 2018, DOI: 10.1081/E-ECHP-140000328.

[http://www.phy.ohio.edu/~jchen/Publications/Archive/2019%20EHP\\_review\\_PerovskiteSolarCell.pdf](http://www.phy.ohio.edu/~jchen/Publications/Archive/2019%20EHP_review_PerovskiteSolarCell.pdf)

21. Lei Wang, Joseph R. Pyle, Katherine L. A. Cimatu,\* Jixin Chen,\* Ultrafast transient absorption spectra of photoexcited YOYO-1 molecules call for additional investigations of their fluorescence quenching mechanism. *J. Photochem. Photobiol. A: Chem.*, 2018, 367, 411-419. (OU A&S news) <https://www.sciencedirect.com/science/article/abs/pii/S1010603018309274>
22. Joseph R. Pyle, Kurt W.E. Sy Piecco, Juvinch R. Vicente, Jixin Chen,\* Optical Genome Mapping. *Encyclopedia of Chemical Processing*. 2018, DOI: 10.1081/E-EHP-140000148. <http://www.phy.ohio.edu/~jchen/Publications/Archive/2019%20EHP%20review%20Optical%20Mapping.pdf>
23. Gregory J. Deye, Juvinch R. Vicente, Jixin Chen, Jacob W. Ciszek, The Influence of Defects on the Reactivity of Organic Surfaces. *J. Phys. Chem. C* 2018, 122(27), 15582-15587. <https://pubs.acs.org/doi/10.1021/acs.jpcc.8b04635>
24. Gregory Deye, Juvinch R. Vicente, Shawn M. Dalke, Selma Piranej, Jixin Chen, Jacob W. Ciszek, The Role of Thermal Activation and Molecular Structure on the Reaction of Molecular Surfaces. *Langmuir* 2017, 33(33), 8140-8146. <https://pubs.acs.org/doi/abs/10.1021/acs.langmuir.7b02099>
25. Joseph R. Pyle, Jixin Chen,\* Photobleaching of YOYO-1 in Super-Resolution Single-DNA Fluorescence Imaging. *BJNano*. 2017, 8, 2296-2306. <https://www.beilstein-journals.org/bjnano/articles/8/229>
26. Chi-Shiang Ke, Chia-Chia Fang, Jia-Ying Yan, Po-Jung Tseng, Chung-Jui Hung, Chuan-Pin Chen, Shu-Yi Lin, Jixin Chen, Xuanjun Zhang, and Yang-Hsiang Chan. Molecular Engineering and Design of Semiconducting Polymers to Develop Polymer Dots with Narrow-Band, Near-Infrared Emission for In Vivo Biological Imaging. *ACS Nano*, 2017, 11, 3166–3177. <https://pubs.acs.org/doi/abs/10.1021/acsnano.7b00215>
27. Selma Piranej, David A Turner, Shawn M Dalke, Haejun Park, Brittini A Qualizza, Juvinch Vicente, Jixin Chen, Jacob W Ciszek. Tunable interfaces on tetracene and pentacene thin-films via monolayers. *CrystEngComm* 2016, 18, 6062-6068. <https://pubs.rsc.org/-/content/articlehtml/2016/ce/c6ce00728g>
28. Jixin Chen,\* Joseph R Pyle, Kurt Waldo Sy Piecco, Anatoly B Kolomeisky, Christy F Landes. A Two-Step Method for smFRET Data Analysis. *The Journal of Physical Chemistry B* 2016, 120, 7128–7132. <https://pubs.acs.org/doi/abs/10.1021/acs.jpcc.6b05697> (Selected in the Virtual Issue of JPCB on Biophysics: <http://pubs.acs.org/page/jpcb/vi/biophysics>) (OU A&S News)

### Before joining Ohio University

29. David R Cooper, Drew M Dolino, Henriette Jaurich, Bo Shuang, Swarna Ramaswamy, Caitlin E Nurik, Jixin Chen, Vasanthi Jayaraman, Christy F Landes. Conformational Transitions in the Glycine-Bound GluN1 NMDA Receptor LBD via Single-Molecule FRET. *Biophysical Journal* 2015, 109, 66-75
30. Chen, J.X.; Poddar, N. K.; Tauzin, L. J.; Cooper, D. R.; Kolomeisky, A. B.; Landes, C. F. Single-Molecule FRET Studies of HIV TAR-DNA Hairpin Unfolding Dynamics. *The Journal of Physical Chemistry B* 2014, 118, 12130-12139.
31. Shuang, B.; Cooper, D. R.; Taylor, J. N.; Kisley, L. M.; Chen, J.X.; Wang, W.X.; Li, C.-B.; Komatsuzaki, T.; Landes, C. F. Fast Step Transition and State Identification (STaSI) for Discrete Single-molecule Data Analysis. *The Journal of Physical Chemistry Letters* 2014, 5, 3157–3161.



32. Tuzin, L. J.; Shuang, B.; Kisley, L. M.; Mansur, A. P.; Chen, J.X.; de Leon, A.; Advincula, R. C.; Landes, C. F. Charge-Dependent Transport Switching of Single Molecular Ions in a Weak Polyelectrolyte Multilayer. *Langmuir* 2014, 30, 8391-8399.
33. Kisley, L.; Chen, J. X.; Mansur, A. P.; Dominguez-Medina, S.; Kulla, E.; Kang, M.; Shuang, B.; Kourentzi, K.; Poongavanam, M.-V.; Dhamane, S.; Willson, R. C.; Landes, C. F. High ionic strength narrows the population of sites participating in protein ion-exchange adsorption: A single-molecule study. *Journal of Chromatography A* 2014, 1343, 135–142.
34. Kisley, L.; Chen, J. X.; Mansur, A. P.; Shuang, B.; Kourentzi, K.; Poongavanam, M.-V.; Chen, W.-H.; Dhamane, S.; Willson, R. C.; Landes, C. F. Unified super-resolution experiments and stochastic theory provide mechanistic insight into protein ion-exchange adsorptive separations. *PNAS* 2014, 111, 2075-2080 (Reported by *NSF Science360*, *Rice News*, *Physics News*, *Phys.org*, and etc.)
35. Shuang, B.; Chen, J. X.; Kisley, L.; Landes, C. F. Troika of single particle tracking programming: SNR enhancement, particle identification, and mapping. *Physical Chemistry Chemical Physics* 2013, 16, 624-634.
36. Chen, J. X.; Bremauntz, A.; Kisley, L.; Shuang, B.; Landes, C. F. Super-Resolution mbPAINT for Optical Localization of Single-Stranded DNA. *ACS Applied Materials & Interface* 2013, 5, 9338–9343. (Reported by *Rice News*, *Science Daily*, and *Novus Light...*)
37. Chen, J.X.; Ruther, R.; Tan, Y.; Bishop, L.; Hamers. R. J. Molecules on ZnO surfaces: Molecular Adsorption on ZnO(10-10) Single Crystal Surfaces: Morphology and Charge Transfer. *Langmuir* 2012, 28, 10437-10455.
38. English, C. R.; Bishop, L. M.; Chen, J. X.; Hamers R. J. Formation of Self-Assembled Monolayers of  $\pi$ -Conjugated Molecules on TiO<sub>2</sub> Surfaces by Thermal Grafting of Aryl and Benzyl Halides. *Langmuir* 2012, 28, 6866-6876.
39. Cai, Y. J.; Zhao, Z.; Chen, J. X.; Yang, T.; Cremer, P. S. Deflected Capillary Force Lithography (dCFL). *ACS Nano* 2012, 6, 1548–1556. (Highlighted in *ACS Nano*, 2012, 6, 998)
40. Chen, J. X.; Franking, R.; Ruther, R. E.; Tan, Y. Z.; He, X. Y.; Hogendoorn, S. R.; Hamers, R. J. Formation of Molecular Monolayers on TiO<sub>2</sub> Surfaces: A Surface Analogue of the Williamson Ether Synthesis. *Langmuir* 2011, 27, 6879-6889.
41. Chan, Y. H.; Chen, J. X.; Liu, Q. S.; Wark, S. E.; Son, D. H.; Batteas, J. D. Ultrasensitive Copper(II) Detection Using Plasmon-Enhanced and Photo-Brightened Luminescence of CdSe Quantum Dots. *Analytical chemistry* 2010, 82, 3671-3678.
42. Chen, J. X.; Chan, Y. H.; Yang, T. L.; Wark, S. E.; Son, D. H.; Batteas, J. D. Spatially Selective Optical Tuning of Quantum Dot Thin Film Luminescence. *Journal of the American Chemical Society* 2009, 131, 18204-18205. (Highlighted in *JACS Select*, an online collection showcasing significant recent publications in JACS; and *Photonics Spectra* news, an industrial magazine)
43. Chen, J. X.; Liao, W. S.; Chen, X.; Yang, T. L.; Wark, S. E.; Son, D. H.; Batteas, J. D.; Cremer, P. S. Evaporation-Induced Assembly of Quantum Dots into Nanorings. *ACS Nano* 2009, 3, 173-180.
44. Chen, J. X. (co-first author); Chan, Y. H. (co-first author); Wark, S. E.; Skiles, S. L.; Son, D. H.; Batteas, J. D. Using Patterned Arrays of Metal Nanoparticles to Probe Plasmon Enhanced Luminescence of CdSe Quantum Dots. *ACS Nano* 2009, 3, 1735-1744.
45. Liao, W. S.; Chen, X.; Yang, T. L.; Castellana, E. T.; Chen, J. X.; Cremer, P. S. Benchtop Chemistry for the Rapid Prototyping of Label-Free Biosensors: Transmission Localized Surface Plasmon Resonance Platforms. *Biointerphases* 2009, 4, 80-85.

46. Shi, J. J.; Chen, J. X.; Cremer, P. S. Sub-100 nm Patterning of Supported Bilayers by Nanoshaving Lithography. **Journal of the American Chemical Society** 2008, 130, 2718-2719.
47. Zhang, F. X.; Miao, S.; Yang, Y. L.; Zhang, X.; Chen, J. X.; Guan, N. J. Size-Dependent Hydrogenation Selectivity of Nitrate on Pd-Cu/TiO<sub>2</sub> Catalysts. **Journal of Physical Chemistry C** 2008, 112, 7665-7671.
48. Liao, W. S.; Chen, X.; Chen, J. X.; Cremer, P. S. Templating Water Stains for Nanolithography. **Nano Letters** 2007, 7, 2452-2458.
49. Zhang, S. J.; Li, L. D.; Xue, B.; Chen, J. X.; Guan, N. J.; Zhang, F. X. Selective Catalytic Reduction of Nitric Oxide with Propane over Ni-Al<sub>2</sub>O<sub>3</sub>: Effect of Ni Loading. **Reaction Kinetics and Catalysis Letters** 2006, 89, 81-87.
50. Guan, X. X.; Li, N.; Wu, G. J.; Chen, J. X.; Zhang, F. X.; Guan, N. J. Para-Selectivity of Modified HZSM-5 Zeolites by Nitridation for Ethylation of Ethylbenzene with Ethanol. **Journal of Molecular Catalysis A-Chemical** 2006, 248, 220-225.
51. Zhang, F. X.; Jin, R. C.; Chen, J. X.; Shao, C. Z.; Gao, W. L.; Li, L. D.; Guan, N. J. High Photocatalytic Activity and Selectivity for Nitrogen in Nitrate Reduction on Ag/TiO<sub>2</sub> Catalyst with Fine Silver Clusters. **Journal of Catalysis** 2005, 232, 424-431.
52. Li, L. D.; Xue, B.; Chen, J. X.; Guan, N. J.; Zhang, F. X.; Liu, D. X.; Feng, H. Q. Direct Synthesis of Zeolite Coatings on Cordierite Supports by *in situ* Hydrothermal Method. **Applied Catalysis A: General** 2005, 292, 312-321.
53. Li, L. D.; Chen, J. X.; Zhang, S. J.; Zhang, F. X.; Guan, N. J.; Wang, T. Y.; Liu, S. L. Selective Catalytic Reduction of Nitrogen Oxides from Exhaust of Lean Burn Engine over *in situ* Synthesized Cu-ZSM-5/Cordierite. **Environmental Science & Technology** 2005, 39, 2841-2847.
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#### **PATENTS**

1. Guan, N. J.; Li, N.; Chen, J. X.; Zhang, F. X. Catalysts Used in the Alkylation of Ethylbenzene with Ethanol to para-Diethylbenzene and Its Preparation. **CN1605390A**, 2006.

- Zheng, C.M.; Chen, J.X.; Li, N.; Zeng, H.S.; Guan, N.J. A Catalyst for Diphenylamine Synthesis. **CN1669640A**, 2005
- Liu, Z. G.; Guan, N. J.; Chen, T. H.; Chen, J. X.; Wang, J. Z. A Method to Treat Biodegradable Organic Wastewater by CuCl Membrane. **CN1435381A**, 2005.

### **INVENTION DISCLOSURE**

- Chen, J. X.; Shuang, B.; Kisley, L.; Landes, C. F. Super-Resolution Optical Genome Sensing and Sequencing, Rice University, 2013.
- Chen, J. X.; Byers, C. P.; Woods, G. L.; Landes, C. F. Parallel Fluorescence-Based Imaging Identification of Open Through-Silicon Via (TSV) Microelectrodes, Rice University, 2013.
- Chen, J. X.; Batteas, J. D.; Chan, Y. H.; Son, D. H. Photo-Patterning of Luminescent Quantum Dot Arrays for Sensing and Display, Texas A&M University, 2008.
- Liao, W. S.; Chen, X.; Chen, J. X.; Yang, T. L.; Cremer, P. S. Water Stain Lithography for Microfabrication of Patterned Surfaces, Texas A&M University, 2007.

### **PRESENTATIONS**

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#### **Invited seminars/symposia oral presentations**

##### *External*

- A Few Theoretical and Experimental Attempts in Diffusive Adsorption Kinetics. Wintergreen Meeting of Physical Chemistry, Wintergreen, VA. Sept. 25-29, 2021. Invited symposium.
- Photophysics as a Tool to Measure the Surface-State of Perovskite Nanoparticles. Chemistry Department at Youngstown State University, Ohio, Nov. 1, 2019, invited colloquium.
- Measure Reaction Kinetics at Interfaces. Department of Chemistry, University of Houston, Houston, Texas, scheduled on Oct. 15, 2019, invited colloquium.
- Photophysics as a Tool to Measure the Surface-State of Perovskite Nanoparticles. Department of Physics and Astronomy, Case Western Reserve University, Ohio, Sept. 16, 2019. invited colloquium.
- Photophysics for Surface-State Measurement of Perovskite Nanoparticles. Wintergreen Meeting of Physical Chemists, June 8th-12th, 2019. Invited symposium.
- A few examples of visible spectroscopy and microscopy in biophysics studies. Invited talk to Kent State University, Department of Chemistry and Biochemistry, Kent State University, Kent, Ohio, November 1, 2018. Invited colloquium.
- Fluorescence Microscopy and Spectroscopy in Single-Molecule Studies, Chen, J., Invited talk to Loyola University at Chicago, Loyola University, Chicago, (February 22, 2018). Invited colloquium.
- Charge Transfer Study of YOYO-1 in Solutions Using Ultrafast Transient Absorption Spectroscopy, Midwestern Universities Analytical Chemistry Conference, October 19, 2017, Athens, Ohio, invited symposium.
- Using Patterned Arrays of Metal Nanoparticles to Probe Plasmon Enhanced Luminescence of CdSe Quantum Dots. META'15 the 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics, Aug. 4-7, 2015, New York, NY. Invited symposium.
- Seeing Single-Molecule Dynamics at Interfaces with Optical Microscopy. *Workshop: Light-Driven Processes for Bio-Inspired Materials and Systems*, December 14-16, 2014, Rice University, Houston, TX. Invited symposium.
- Super-Resolution Fluorescence Imaging for Single-Molecule Dynamics at Interfaces. Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Feb. 4-5, 2015, Suzhou, China. Invited colloquium.

##### *Internal*

12. Fluorescence Microscopy and Spectroscopy in Single-Molecule Studies. Ohio NQPI Colloquium, Ohio University, Athens, Ohio, Chen, J., Invited colloquium. (October 4, 2018).
13. Fluorescence Microscopy and Spectroscopy in Single-Molecule Studies. Chemistry Graduate Student Seminar, Chemistry&Biochemistry, Ohio University, Athens, Chen, J., Invited colloquium. (September 19, 2018).
14. Super-Resolution Fluorescence Imaging: Seeing Single-Molecule Dynamics at Interfaces. Ohio University CMSS Colloquium, Nov. 20, 2014, Athens, OH. Invited colloquium.
15. Physical and Inorganic Groups Student seminar. 2014-2017 every semester. Organizer and invited.

#### **Other conference presentations**

16. A single-molecule FRET data fitting package for DNA folding kinetic study. NIDA Genetics and Epigenetics Cross-Cutting Research Team Meeting, Washington DC, May 16-17, 2023
17. Simulating Stochastic Adsorption of Diluted Solute Molecules at Interfaces. ACS National Meeting, San Diego, March 20-24, 2022.
18. Using Monte Carlo Simulation to Improve Accuracy in smFRET Data Analysis, ACS National Meeting, ACS, Washington, DC, August 23, 2017, Oral presentation.
19. Measurements and Analysis of Ultrafast Transient Absorption Spectra of YOYO-1 in Solutions, Chen, J., 255<sup>th</sup> ACS national meeting, ACS, New Orleans, March 18-22, 2018.
20. Single-Molecule Fluorescence Sensing and Imaging. Humboldt Colloquium, "Global Research in the 21st Century: Perspectives of the U.S. Humboldt Network", March 2-4, 2017, Washington D.C. Poster presentation
21. Super-resolution imaging technique mbPAINT for DNA optical mapping. *64th Annual Meeting of the American Society of Human Genetics*, October 18-22, **2014**, San Diego, CA. Poster presentation
22. Super-resolution mbPAINT for optical localization of single-stranded DNA. *248<sup>th</sup> ACS National Meeting*, August 10-14, **2014**, San Francisco, CA. Oral presentation
23. Chen, J. X.; Poddar, N. K.; Tazuin, L. J.; Cooper, D.; Kolomeisky, A. B.; Landes, C. F. Multi-Loop DNA Hairpin Folding/Unfolding. The 27th Annual Rice Quantum Institute Colloquium, August 2, 2013, Rice University, Houston, TX. Oral presentation
24. Chen, J. X.; Poddar, N. K.; Tazuin, L. J.; Cooper, D.; Kolomeisky, A. B.; Landes, C. F. Multi-Loop DNA Hairpin Folding/Unfolding. The 3rd Annual Postdoctoral Science Symposium, August 1, 2013, UT MD Anderson Cancer Center, Houston, TX. Poster presentation
25. Chen, J. X.; Poddar, N. K.; Tazuin, L. J.; Kolomeisky, A. B.; Landes, C. F. Effect of multiple loops on the dynamics of DNA hairpins: A single-molecule FRET study. 245<sup>th</sup> ACS National meeting, April 7-11, 2013, New Orleans, LA. Oral presentation
26. Chen, J. X., Formation of Molecular Monolayers on TiO<sub>2</sub> surfaces: A Surface Analog of the Williamson Ether Synthesis. Gordon Research Conference: Chemical Reactions at Surfaces, February 6-11, 2011 Ventura, CA. Poster presentation
27. Chen, J. X., Evaporation-Induced Assembly of Quantum Dots into Nanorings. 238<sup>th</sup> ACS National Meeting, August 16-20, 2009, Washington, DC. Oral presentation
28. Chen, J. X., Spatially Selective Tuning of Quantum Dot Thin Film Optical Properties by Photopatterning. The 237<sup>th</sup> ACS National Meeting, March 22-26, 2009, Salt Lake City, UT. Poster presentation
29. Chen, J. X., Evaporation Induced One-Step Self-Assembly of Quantum Dots into Nano-Rings. The 11th Annual Student Research Week of Texas A&M University, March 24-28, 2008, College Station, TX. Poster presentation

**Sponsoring student presentations (External.** Not showing each graduate student presents ~5 year<sup>-1</sup> internally at or above the departmental level)

30. Annik Bernhardt, Tharushi D. Ambagaspitiya, Martin E. Kordesch, Katherine Leslee A. Cimat, Jixin Chen. Spectroscopic Ellipsometry Measurements on the Phase Segregation of Mixed Halide Lead Perovskites. ACS National Meeting, San Diego, CA, March 20-24, 2022
31. Dinesh Gautam, Jixin Chen. Optimize the conditions for the two end DNA immobilization on the glass substrate. ACS National Meeting, San Diego, CA, March 20-24, 2022
32. Juvinch R. Vicente, Jixin Chen, Interaction of Molecular Oxygen with Surface Defects on Single-particle Organolead Halide Perovskites. 257th ACS National Meeting, Orlando, FL, March 31 – April 4, 2019.
33. Kurt W.E. Sy Piecco, Juvinch R. Vicente and Jixin Chen, Perovskite Thin Film Array on Chemically-Patterned Substrates. 257th ACS National Meeting, Orlando, FL, March 31 – April 4, 2019.
34. Joseph R. Pyle and Jixin Chen, Monitoring Reactive Oxygen Species Production at the single DNA level. 257th ACS National Meeting, Orlando, FL, March 31 – April 4, 2019.
35. Vicente, J.; Chen, J. Fabrication of perovskite solar cells under ambient conditions. 254th ACS National Meeting, Washington, DC, August 20-24, 2017. Poster presentation.
36. Sy Piecco, K.; Chen, J. Photochemical patterning of surface charges in fluidic. 254th ACS National Meeting, Washington, DC, August 20-24, 2017. Poster presentation.
37. Pyle, J.; Chen, J. Surface modification for DNA studies. 254th ACS National Meeting, Washington, DC, August 20-24, 2017. Poster presentation.
38. Pyle, J.; Sy Piecco, K.; Wang, L.; Chen, J. Super Resolution Imaging of Stretched DNA using Motion Blur Point Accumulation for Imaging in Nanoscale Topography (mbPAINT). 125<sup>th</sup> Ohio Academy of Science Annual Meeting, Athens, OH April 2016. Poster.

#### UNIVERSITY AND DEPARTMENT SERVICE

- 2020-present: Ohio University Baker Fund Committee
- 2021-present: University Curriculum Council's (UCC) Program Review Committee
- 2015 - present: Coordinator for the Departmental Honors Program
- 2015 CMSS fellowship review committee
- 2016-present: NQPI fellowship review committee
- 2015 - present: Graduate thesis/dissertation committee (~7 students defended each year)
- 2015 - present: Advising ~15 undergraduate students each semester
- 2016 - present: Departmental T&P Evaluation Committee
- 2015 - present: CMSS/NQPI Poster judging
- 2015 - 2016: Departmental Graduate Committee
- 2015 - 2016: Curriculum/Teaching Committee
- 2014 - 2015: Facilities Committee
- 2014 - 2015: Curriculum/Teaching Committee
- Graduate student thesis and dissertation committees

#.*	Name	Advisor	Department	Started	Awarded
1.	Susil Baral	Hugh Richardson	Chemistry and Biochemistry	2014	Ph.D. 2017
2.	Narendra Adhikari	Katherine Cimat	Chemistry and Biochemistry	2014	Ph.D. 2019
3.	Joseph Pyle	Jixin Chen	Chemistry and Biochemistry	2014	Ph.D. 2019
4.	Kurt Sy Piecco	Jixin Chen	Chemistry and Biochemistry	2014	Ph.D. 2019
5.	Ali Rafiei Miandashti	Hugh Richardson	Chemistry and Biochemistry	2014	Ph.D. 2019
6.	Uvinduni Premadasa	Katherine Cimat	Chemistry and Biochemistry	2015	Ph.D. 2020
7.	Juvinch Vicente	Jixin Chen	Chemistry and Biochemistry	2015	Ph.D. 2020
8.	Kristina Shrestha	Hugh Richardson	Chemistry and Biochemistry	2015	Ph.D. 2020
9.	Najah Qaeisoom	Justin Holub	Chemistry and Biochemistry	2016	Ph.D. 2019
10.	Rubel Khan	Katherine Cimat	Chemistry and Biochemistry	2016	Ph.D. 2021
11.	Dinesh Gautam	Jixin Chen	Chemistry and Biochemistry	2016	
12.	Uriel Erasquin	Katherine Cimat	Chemistry and Biochemistry	2016	
13.	Javad Shokraiyen	Mike Jenson	Chemistry and Biochemistry	2021	
14.	Jordan M. Rabus	Ben Bythell	Chemistry and Biochemistry	2020	Ph.D. 2021

#.*	Name	Advisor	Department	Started	Awarded
15.	Esther Mbuna	Ben Bythell	Chemistry and Biochemistry	2021	
16.	Shanshan Guan	Ben Bythell	Chemistry and Biochemistry	2020	Ph.D. 2021
17.	Tharushi Ambagaspitiya	Katherine Cimatu	Chemistry and Biochemistry	2020	
18.	Annik Bernhardt	Jixin Chen	Chemistry and Biochemistry	2021	
19.	Deepani Vidarshika	Jixin Chen	Chemistry and Biochemistry	2021	
20.	Srijana Pandey	Jixin Chen	Chemistry and Biochemistry	2021	
21.	Dylan Smith	Jixin Chen	Chemistry and Biochemistry	2021	
22.	Liyi Wang	Stephen Bergmeier	Chemistry and Biochemistry	2021	Ph.D. 2021
23.	Yingqiao Ma	Arthur Smith	Physics and Astronomy	2016	Ph.D. 2018
24.	Sneha R Upadhyay	Arthur Smith	Physics and Astronomy	2020	
25.	Shamim Akhtar	Carl Brune	Physics and Astronomy	2016	Ph.D. 2016
26.	Sushil Dhakal	Carl Brune	Physics and Astronomy	2016	Ph.D. 2017
27.	Shaoze Wang	Saw-Wai Hla	Physics and Astronomy	2017	Ph.D. 2020
28.	Bhishan Poudel	Douglas Clowe	Physics and Astronomy	2018	
29.	William Poston	Eric Stinaff	Physics and Astronomy	2021	
30.	Vedasri Vedharathinam	Gerardine Botte	Chemical and Biomolecular Engineering	2015	Ph.D. 2015
31.	Lujie Ye	Sunggyu Lee	Chemical and Biomolecular Engineering	2016	M.S. 2016
32.	Maral Vahdatzaman	Sunggyu Lee	Chemical and Biomolecular Engineering	2016	M.S. 2017
33.	Di Wang	Tingyue Gu	Chemical and Biomolecular Engineering	2019	
34.	Kushal Singla	Srdjan Nesic	Chemical and Biomolecular Engineering	2020	Ph.D. 2020
35.	Abolfazl Faeli Qadikolae	Sumit Sharma	Chemical and Biomolecular Engineering	2021	
36.	Neda Noroozias	Marc Singer	Chemical and Biomolecular Engineering	2021	Ph.D. 2021
37.	Mengqiu Pan	Srdjan Nešić	Chemical and Biomolecular Engineering	2021	
38.	Aditya Nittala	Keerti Kappagantula	Mechanical Engineering	2018	M.S. 2018
39.	Aditya Nittala	Keerti Kappagantula	Mechanical Engineering	2019	Ph.D. 2019
40.	Yahya Al-Majali	Khairul Alam	Mechanical Engineering	2019	
41.	Tara Holeman	Wojciech Jadwisieniczak	Electrical Engineering and Computer Science	2017	M.S. 2018
42.	Weiqliang Yuan	Wojciech Jadwisieniczak	Electrical Engineering and Computer Science	2019	M.S. 2020
43.	Patric Hanlon	Savas Kaya	Electrical Engineering and Computer Science	2018	M.S. 2018
44.	Charles Chen	Razvan Bunescu	Electrical Engineering and Computer Science	2019	
45.	Peifeng Yu	Zhijia Zhi	Environment and Plant Biology	2019	
46.	Gregory Deye	Jacob Ciszek	Loyola University, Chicago	2016	Ph.D. 2018

\* Including 8 graduate students of my own. About 10-15 from other groups actively meet every year.

## OUTREACH

**2016-present** Ohio Student Expo judge

**2014-2017** Athens Middle School Science Fair, Judge

**03/14/2015** Athens Annual Science Fair, Judge

## ACADEMIC SERVICE

- **Membership of Academic Associations**  
 The American Chemical Society (ACS) 2009-present  
 The American Society of Human Genetics (ASHG) 2014-2018  
 Sigma Xi 2010-2012
- **Review grants**  
 Reviewer, NSF and ACS PRF proposals.  
 Panel and ad hoc reviewer for NSF and NIH.
- **Reviewer of journal articles (Peering reviewing ~20 papers per year):**  
*JACS*  
*Nano Letters*  
*Journal of Physical Chemistry B/C*  
*Langmuir*  
*Analytical Chemistry*  
*ACS AMI*  
*ACS Catalysis*  
*ACS Infectious Diseases*  
*RSC Advances*  
*Journal of Electronic Materials*  
*Journal of Nanoparticle Research*  
*Powder Technology*  
*Lab on a Chip*  
*BJNano*  
*Materials Research Bulletin*  
*Journal of Solid State Chemistry*  
*CrystEngComm*  
*Journal of Molecular Catalysis A: Chemical*  
*Biophysical Journal*