DANIEL R. GAMELIN

Nicole A. Boand Endowed Chair Professor of Chemistry
Director, UW Molecular Engineering Materials Center

Department of Chemistry
University of Washington
Box 351700
Seattle, WA 98195-1700

Phone: (206) 685-0901
Fax: (206) 685-8665
Gamelin@chem.washington.edu
http://depts.washington.edu/gmrg

EDUCATION AND PROFESSIONAL EXPERIENCE

University of Washington	Seattle, WA
Assistant → Associate → Full Professor	3/00→9/06→9/08
Nicole A. Boand Endowed Chair	9/17–present
Director, UW Molecular Engineering Materials Center (NSF MRSEC)	9/17–present
Harry and Catherine Jaynne Boand Endowed Professor	9/08–9/17
Synthesis and physical properties of semiconductor nanostructures	
BlueDot Photonics, Inc.	Seattle, WA
Co-Founder and Chief Scientific Advisor	2/19–2/25
Solar spectral shaping for high-efficiency photovoltaics	
University of Bern	Bern, Switzerland
Postdoctoral Research Fellow (w/Prof. H. U. Güdel)	10/97–2/00
Photophysics of luminescent solid-state inorganic materials	
Stanford University	Stanford, CA
Doctor of Philosophy (w/Prof. E. I. Solomon)	1998
Electronic structure studies of transition-metal dimers relevant to biological electron transfer and catalysis	
Max-Planck-Institut für Strahlenchemie	Mülheim, Germany
Predoctoral Research Fellow (w/Profs. F.-W. Grevels, K. Schaffner)	8/90–7/91
Time-resolved IR and Raman spectroscopies of excited states	
Reed College	Portland, OR
Bachelor of Arts in Chemistry (Thesis advisor: Prof. D. P. Gerrity)	1990
Resonance Raman studies of group VI transition-metal hexacarbonyls	
Brandeis University	Waltham, MA
NSF-REU (Research advisor: Prof. I.-Y. Chan)	1989
Luminescence of organic molecules in high-pressure diamond anvil cells	

VISITING POSITIONS

Universidad de Cantabria	Santander, Spain
Invited Visiting Professor (w/Prof. Rafael Valiente)	11/23, 3/24–4/24
High-pressure spectroscopy of layered magnets	
Debye Institute for Nanomaterials Science, Utrecht University	Utrecht,
Invited Visiting Professor (w/Prof. A. Meijerink)	Netherlands
Nanocrystal spectroscopies	5/15–7/15
University of Melbourne	Melbourne,
Honorary Visiting Professor (w/Prof. P. Mulvaney)	Australia
Nanocrystals	11/14–2/15

Debye Institute for Nanomaterials Science, Utrecht University	Utrecht,
Debye Chair Professor	Netherlands
Nanomaterials	5/13–7/13
Laboratory for Photonics and Interfaces, École Polytechnique Fédérale de Lausanne (EPFL)	Lausanne, Switzerland
Invited Visiting Professor (w/Prof. M. Grätzel)	11/07–7/08
Solar energy conversion	
Center for Applied Photonics, University of Konstanz	Konstanz,
Invited Visiting Professor (w/Profs. R. Bratschitsch, A. Leitenstorfer)	Germany
Ultrafast time-resolved Faraday rotation	9/07–10/07, 8/08

AWARDS AND HONORS

2026-2027 Reilly Lectureship, University of Notre Dame
2024-2025 Paul Hopkins Faculty Award, UW Chemistry
2023-2024 Invited Visiting Professor, Universidad de Cantabria, Spain, High-Pressure and Spectroscopy Laboratory
2023-2025 Technion Visiting Faculty Award, Haifa, Israel
2021 NSF Creativity Extension (project DMR-1807394)
2020 Mercator Fellowship, Deutsche Forschungsgemeinschaft (DFG)
2020 Prins Lecturer, Syracuse University, Chemistry
2020 Lagow Lecturer, University of Texas, Austin, Chemistry
2019 James A. Ibers Summer Lecturer in Inorganic Chemistry, Northwestern Univ., Chemistry
2018/2016, Chair/Vice Chair, Gordon Research Conf. on Colloidal Semiconductor Nanocrystals
2018 Marple-Schweitzer Memorial Lectureship, Northwestern University, Chemistry
2017-2018 Harvard Chemistry/Chemical Biology Student-Invited Lecturer
2017–present, Nicole A. Boand Endowed Chair
2016 Fellow of the Royal Society of Chemistry
2016 Dunne Lecturer, Reed College
2015 Election to the Washington State Academy of Sciences
2015 ACS Inorganic Chemistry Lectureship Award
2015 Invited Visiting Professor, Debye Institute for Nanomaterials Science, Utrecht University
2014–2015, Honorary Visiting Professor, University of Melbourne, Nanocrystal and Nanomechanics Laboratory
2013 Debye Chair Professor, Debye Institute for Nanomaterials Science, Utrecht University
2013 Jonathan L. Sessler Distinguished Alumni Lecturer, Stanford University, Chemistry
2012 ACS Inorganic Nanoscience Award
2012 Fellow of the American Association for the Advancement of Science (AAAS)
2011–2012 Dalton Lecturer (Americas) in Inorganic Chemistry, presented at U.C. Berkeley
2011 Scialog Fellow of the Research Corporation
2009 Senior Fellow of the Zukunftskolleg, University of Konstanz
2008–2017, Harry and Catherine Jaynne Boand Endowed Professor of Chemistry
2008 Ornstein Colloquium Lecturer, Utrecht University
2007–2008, Invited Visiting Professor, École Polytechnique Fédérale de Lausanne (EPFL), Laboratory for Photonics and Interfaces
2007–2008, Invited Visiting Professor, University of Konstanz, Institute for Applied Photonics
2007 Cherry Emerson Lecturer, Georgia Tech, Chemistry

2006 Distinguished Teaching Award, UW, Chemistry
2006 Alfred P. Sloan Research Fellowship, Sloan Foundation
2005 Camille Dreyfus Teacher-Scholar Award, Dreyfus Foundation
2005 Dow Lecturer in Inorganic Chemistry, Caltech
2003 Presidential Early Career Award for Scientists and Engineers (PECASE)
2003 Cottrell Scholar Award, Research Corporation
2003 Faculty Early Career Development Award (CAREER), National Science Foundation
2002 Research Innovation Award, Research Corporation
1995 Franklin Veatch Memorial Fellowship Award for excellence in graduate research, Stanford University, Chemistry
1990 Deutscher Akademischer Austauschdienst (DAAD) fellowship for predoctoral research, Max-Planck-Institut für Strahlenchemie
1989 NSF-REU Awardee, Brandeis University, Chemistry

TEACHER/SCHOLAR AWARDS

2006 Distinguished Teaching Award, UW, Chemistry Department
2005 Camille Dreyfus Teacher-Scholar Award, Dreyfus Foundation
2003 Cottrell Scholar Award, Research Corporation
2003 PECASE/CAREER Award, National Science Foundation

SELECT UNIVERSITY AND PROFESSIONAL SERVICE ACTIVITIES

Founding Director, UW Molecular Engineering Materials Center (NSF MRSEC) (2017–present)
Editorial Board, *Journal of Luminescence*, Elsevier (2017–present)
Co-Founder and Co-Organizer, Nanocrystals Northwest conference (2019–present, biennial)
Co-Founder and Co-Organizer, American Conference on Inorganic Nanoscience (ACIN) (2025–present, biennial)
Co-Founder and Chief Scientific Advisor, BlueDot Photonics, Inc. (2019–2025)
Washington State Academy of Sciences, Section Membership Committee, Physical and Mathematical Sciences (2020–2023)
Associate Editor, *Chemical Communications*, Royal Society of Chemistry (2010–2022)
Chair/Vice Chair, Gordon Research Conference on Colloidal Semiconductor Nanocrystals (2018/2016)
Pauling Award Selection Committee (2017–2019)
Editorial Advisory Board, *Inorganic Chemistry* (ACS) (2009–2011)
Editorial Advisory Board, *ACS Catalysis* (2010–2011)
Chair, Nanoscience Sub-division, ACS Division of Inorganic Chemistry (2006–2007)

PUBLICATIONS

(Google Scholar: *h index* ~ 92; *i10 index* ~ 243; *citations* > 35,800; *avg. citations/pub* > 100)

270. "Exploring Electronic Coupling and Interface Energetics of a Magnetic Two-dimensional Perovskite with Metal Interfaces." Rahman, S.; Smith, R. T.; Nguyen, L.; Nurrosyid, N.; Moon, J.; Gamelin, D. R.; Jasieniak, J. J., *ACS Appl. Mater. & Interfaces*, **2026**, *in press(https://doi.org/10.1021/acsami.5c25494)*.

269. "The Impact of Magnons, Defects, and Rapid Energy Migration on the Optical Properties of the 2D Magnet $CrPS_4$." Baillie, J. T.; Tzanetopoulos, E.; Smith, R. T.; Beaulac, R.; Gamelin, D. R., *Phys. Rev. Mater.*, **2026**, *in press*. (https://doi.org/10.1103/wmmx-thx3)
268. "Luminescent Orthochromite Microcrystals: Synthesis, Magnetic-Exchange Splittings, and Simultaneous Pair Excitation in Yb^{3+}-Doped $YCrO_3$ and $YbCrO_3$." Tzanetopoulos, E.; Chang, M.; Pressler, K.; Gamelin, D. R., *J. Am. Chem. Soc.*, **2026**, *148*, 14223–14232.
267. "Nonaqueous Synthesis of Colloidal Cs_2ZrF_6, K_2SiF_6, Na_2SiF_6, and Related A_2BF_6 Nanocrystals via Fluoride Salt Precursors." Tzanetopoulos, E.; Schwartz, J.; Gamelin, D. R., *Inorg. Chem.*, **2026**, *65*, 5522–5531.
266. "A Versatile Method for Synthesizing Colloidal Cr^{3+}-Based Fluoride Nanocrystals: Near-IR-Emitting Cs_2NaCrF_6, Na_3CrF_6, and Yb^{3+}-Doped Cs_2NaCrF_6." Tzanetopoulos, E.; Gamelin, D. R., *Chem. Mater.*, **2026**, *38*, 1741–1750.
265. "Optical Spin Sensing and Metamagnetic Phase Control in the 2D Van der Waals Magnet Yb^{3+}-Doped $CrPS_4$." Baillie, J. T.; Pressler, K.; Adams, N. J.; Horani, F.; Snoeren, T. J.; Beaulac, R.; Gamelin, D. R., *ACS Nano*, **2025**, *19*, 34408–34417.
264. "Exciton Annihilation by Lanthanide Dopants: An Atomic Probe of Sub-Diffraction Exciton Diffusion in Ferromagnetic CrI_3." Pressler, K.; Gamelin, D. R., *J. Phys. Chem. C*, **2025**, *129*, 11527.
263. "Cs_2AgSbI_6 Nanocrystals: A New Air-Stable Iodide Double-Perovskite (Elpasolite) Semiconductor." Horani, F.; Gamelin, D. R., *J. Am. Chem. Soc.*, **2025**, *147*, 16552–16559.
262. "Pressure-Induced Modifications of Magnetic and Optical Properties in Yb^{3+}-Doped $CrBr_3$." Snoeren, T. J.; Candela, M. T.; Valiente, R.; Gamelin, D. R., *Opt. Mater.*, **2025**, *165*, 117102.
261. "Understanding the Formation of Colloidal Ferrimagnetic $CuCr_2Se_4$ Nanocrystals with Strong Room-Temperature Magnetic Circular Dichroism." Harvey, S. M.; DeStefano, J. M.; Chu, J.-H.; Gamelin, D. R.; Cossairt, B. M., *Chem. Mater.*, **2024**, *36*, 10746–10757.
260. "Optically Resolved Exchange Splittings in the Doped Van der Waals Ferromagnet $CrBr_3$:Yb^{3+}." Snoeren, T. J.; Pressler, K.; Gamelin, D. R., *Phys. Rev. Mater.*, **2024**, *8*, 104410.
259. "Anion Exchange and Lateral Heterostructure Formation in Ferromagnetic $PEA_2Cr(Cl,Br)_4$ Two-Dimensional Perovskites." Walsh, K. M.; Smith, R. T.; Gamelin, D. R., *J. Am. Chem. Soc.*, **2024**, *146*, 29159–29168.
258. "Coherent Modulation of Two-Dimensional Moiré States with On-Chip THz Waves." Li, Y.; Arsenault, E. A.; Yang, B.; Wang, X.; Park, H.; Guo, Y.; Taniguchi, T.; Watanabe, K.; Gamelin, D. R.; Hone, J.; Dean, C. R.; Maehrlein, S. F.; Xu, X.; Zhu, X.-Y., *Nano Lett.*, **2024**, *39*, 12156–12162.
257. "Reactant Dependent, $10^8\times$ Conductivity Modulation in Plasma-Enhanced Atomic Layer Deposition for Black TiO_2 Films." Berriel, S. N.; McNealy James, T.; Currie, T. M.; Bissell, E.; Butkus, B.; Chen, C.-H.; Tomar, L.; Baillie, J.; Gamelin, D. R.; Davis, K. O.; Jurca, T.; Banerjee, P., *Chem. Mater.*, **2024**, *36*, 7647–7655.
256. "Moiré Exchange Effect in Twisted WSe_2/WS_2 Heterobilayer." Zhu, J.; Zheng, H.; Wang, X.; Park, H.; Xiao, C.; Zhang, Y.; Taniguchi, T.; Watanabe, K.; Yan, J.; Gamelin, D. R.; Yao, W.; Xu, X., *Phys. Rev. Lett.*, **2024**, *133*, 086501.
255. "Electrohydrodynamic Printing-Based Heterointegration of Quantum Dots on Suspended Nanophotonic Cavities." Guymon, G. G.; Sharp, D.; Cohen, T. A.; Gibbs, S. L.; Manna, A.; Tzanetopoulos, E.; Gamelin, D. R.; Majumdar, A.; MacKenzie, J. D., *Adv. Mater. Technol.*, **2024**, 2301921.

254. "Two-Dimensional Moiré Polaronic Electron Crystals." Arsenault, E. A.; Li, Y.; Yang, B.; Wang, X.; Park, H.; Mosconi, E.; Ronca, E.; Taniguchi, T.; Watanabe, K.; Gamelin, D. R.; Millis, A.; Dean, C. R.; de Angelis, F.; Xu, X.; Zhu, X.-Y., *Phys. Rev. Lett.*, **2024**, *132,* 126501.
253. "Oriented Assembly of Lead-Halide Perovskite Nanocrystals." Liu, L.; Kluherz, K. T.; Jin, B.; Gamelin, D. R.; De Yoreo, J. J.; Sushko, M. L., *Nano Lett.*, **2024**, *24,* 3299–3306.
252. "Leveraging Cation Exchange in InP Magic Sized Clusters to Access Coinage Metal Phosphide Nanocrystals." Eagle, F. W.; Harvey, S.; Larson, H.; Abbott, A.; Ladd, D.; Levine, K.; Toney, M.; Gamelin, D. R.; Cossairt, B. M., *Chem. Mater.*, **2024**, *36*, 2888–2897.
251. "An Air-Stable and Exfoliable Ferromagnetic 2D-Perovskite, (Phenethylammonium)$_2$CrCl$_4$." Smith, R. T.; Walsh, K. M.; Jiang, Q.; Chu, J.-H.; Gamelin, D. R., *Chem. Mater.*, **2024**, *36*, 1571–1578.
250. "Multivariate Analysis on the Structure-Activity Parameters for CuO_x-Catalyzed Probe Reactions." Shultz-Johnson, L. R.; Chang, M.; Bisram, N. N.; Bryant, J. T.; Martin, C. P.; Rahmani, A.; Furst, J. I.; Caranto, J. D.; Banerjee, P.; Uribe-Romo, F. J.; Gamelin, D. R.; Jurca, T., *ACS Appl. Nano Mater.*, **2024**, *7*, 928–939.
249. "Evolution of Yb^{3+} Speciation in Cl^-/Br^-- and Yb^{3+}/Gd^{3+}-Alloyed Quantum-Cutting Lead-Halide Perovskite Nanocrystals." Roh, J. Y. D.; Sommer, D. E.; Milstein, T. J.; Dunham, S. T.; Gamelin, D. R., *Chem. Mater.*, **2023**, *35*, 8057–8064.
248. "Enhanced Charge Transfer from Coinage-Metal-Doped InP Quantum Dots." Eagle, F. W.; Harvey, S.; Beck, R.; Li, X.; Gamelin, D. R.; Cossairt, B. M., *ACS Nanoscience Au*, **2023**, *3*, 451–461.
247. "Negative Thermal Quenching in Quantum-Cutting Yb^{3+}-Doped $CsPb(Cl_{1-x}Br_x)_3$ Perovskite Nanocrystals." Roh, J. Y. D.; Milstein, T. J.; Gamelin, D. R., *ACS Nano*, **2023**, *17*, 17190–17198.
246. "Optically Detected Magnetic Resonance Spectroscopic Analyses on the Role of Magnetic Ions in Colloidal Nanocrystals." Dehnel, J.; Harchol, A.; Barak, Y.; Meir, I.; Horani, F.; Shapiro, A.; Strassberg, R.; de Mello Donega, C.; Demir, H. V.; Gamelin, D. R.; Sharma, K.; Lifshitz, E., *J. Chem. Phys.*, **2023**, *159*, 071001.
245. "Luminescence and Covalency in Ytterbium-Doped CrX_3 (X = Cl, Br, I) van der Waals Compounds." Snoeren, T.; Pressler, K.; Kluherz, K. T.; Walsh, K. M.; De Yoreo, J. D.; Gamelin, D. R., *J. Am. Chem. Soc.*, **2023**, *145*, 17427–17434.
244. "Structure and Stability of the Iodide Elpasolite, Cs_2AgBiI_6." Kluherz, K. T.; Mergelsberg, S.; De Yoreo, J. J.; Gamelin, D. R., *Chem. Mater.*, **2023**, *35*, 5699–5708.
243. "Design Rules for Obtaining Narrow Luminescence from Semiconductors Made in Solution." Nguyen, H.; Dixon, G.; Dou, F. Y.; Gallagher, S.; Gibbs, S.; Ladd, D.; Marino, E.; Ondry, J.; Shanahan, J.; Vasileiadou, E.; Barlow, S.; Gamelin, D. R.; Ginger, D. S.; Jonas, D.; Kanatzidis, M. C.; R. Marder, S.; Morton, D.; Murray, C. B.; Owen, J. S.; Talapin, D. V.; Toney, M. F.; Cossairt, B. M., *Chem. Rev.*, **2023**, *123*, 7890–7952.
242. "Effect of a Redox-Mediating Ligand Shell on Photocatalysis by CdS Quantum Dots." Dou, F.; Harvey, S.; Mason, K.; Homer, M.; Gamelin, D. R.; Cossairt, B., *J. Chem. Phys.*, **2023**, *158*, 184705.
241. "Dipole Ladders with Giant Hubbard U in Moiré Exciton Lattice." Park, H.; Zhu, J.; Wang, X.; Wang, Y.; Holtzmann, W.; Taniguchi, T.; Watanabe, K.; Yan, J.; Fu, L.; Cao, T.; Xiao, D.; Gamelin, D. R.; Yu, H.; Yao, W.; Xu, X., *Nature Physics*, **2023**, *19*, 1286–1292.

240. "HF-Free Synthesis of Colloidal Cs_2ZrF_6 and $(NH_4)_2ZrF_6$ Nanocrystals." Tzanetopoulos, E.; Schwartz, J.; Gamelin, D. R., *Chem. Commun.*, **2023**, *59*, 5451–5454.
239. "Intercell Moiré Exciton Complexes in Electron Lattices." Wang, X.; Zhang, X.; Zhu, J.; Park, H.; Wang, Y.; Wang, C.; Holtzmann, W.; Taniguchi, T.; Watanabe, K.; Yan, J.; Gamelin, D. R.; Yao, W.; Xiao, D.; Cao, T.; Xu, X., *Nature Materials*, **2023**, *22*, 599–604.
238. "Magnetic Amplification at Yb^{3+} 'Designer Defects' in the van der Waals Ferromagnet, CrI_3." Pressler, K.; Snoeren, T. J.; Walsh, K. M.; Gamelin, D. R., *Nano Lett.*, **2023**, *23*, 1320–1326.
237. "Synthetic Control of Intrinsic Defect Formation in Metal Oxide Nanocrystals using Dissociated Spectator Metal Salts." Kim, K.; Yu, J.; Noh, J. Reimnitz, L. C.; Chang, M.; Gamelin, D. R.; Korgel, B. A.; Hwang, G. S.; Milliron, D. J., *J. Am. Chem. Soc.*, **2022**, *144*, 22941–22949.
236. "Understanding External Pressure Effects and Interlayer Orbital Exchange Pathways in the Two Dimensional Magnet − Chromium Triiodide." Beck, R. A.; Sun, S.; Xu, X.; Gamelin, D. R.; Cao, T.; Li, X., *J. Phys. Chem. C*, **2022**, *126*, 19327−19335.
235. "Optically Detected Magnetic Resonance Spectroscopy of Cu-doped CdSe and Cu-based $CuInS_2$ Colloidal Quantum Dots." Harchol, A.; Barak, Y.; Hughes, K. E.; Hartstein, K. H.; Jöbsis, H. j.; Prins, P. T.; de Mello Donega, C.; Gamelin, D. R.; Lifshitz, E., *ACS Nano*, **2022**, *16*, 12866–12877.
234. "Defect Structure in Quantum-Cutting Yb^{3+}-Doped $CsPbCl_3$ Perovskites Probed by X-Ray Absorption and Atomic Pair Distribution Function Analysis." Kluherz, K. T.; Mergelsberg, S. T.; Sommer, D. E.; Roh, J. Y. D.; Saslow, S. A.; Biner, D.; Krämer, K. W.; Dunham, S. T.; De Yoreo, J. J.; Gamelin, D. R., *Phys. Rev. Mater.*, **2022**, *6*, 074601.
233. "Direct Patterning of Perovskite Nanocrystals on Nanophotonic Cavities with Electrohydrodynamic Inkjet Printing." Cohen, T. A.; Sharp, D.; Kluherz, K. T.; Chen, Y.; Mulney, C.; Anderson, R. T.; Swanson, C. J.; De Yoreo, J. J.; Luscombe, C. K.; Majumdar, A.; Gamelin, D. R.; Mackenzie, J. D., *Nano Lett.*, **2022**, *22*, 5681–5688.
232. "Ubiquitous Near-Band-Edge Defect State in Rare-Earth-Doped Lead-Halide Perovskites." Milstein, T. J.; Roh, J. Y. D.; Jacoby, L. M.; Crane, M. J.; Sommer, D. E.; Dunham, S. T.; Gamelin, D. R., *Chem. Mater.*, **2022**, *34*, 3759–3769.
231. "Light-Induced Ferromagnetism in Moiré Superlattices." Wang, X.; Xiao, C.; Park, H.; Zhu, J.; Wang, C.; Taniguchi, T.; Watanabe, K.; Yan, J.; Xiao, D.; Gamelin, D. R.; Yao, W.; Xu, X., *Nature*, **2022**, *604*, 468–473.
230. "Defect Formation in Yb-Doped $CsPbCl_3$ from First Principles, with Implications for Quantum Cutting." Sommer, D. E.; Gamelin, D. R.; Dunham, S. E., *Phys. Rev. Mater.*, **2022**, *6*, 025404.
229. "Universal Machine Learning Framework for Defect Predictions in Zinc Blende Semiconductors." Mannodi-Kanakkithodi, A.; Xiang, X.; Jacoby, L.; Biegaj, R.; Dunham, S. T.; Gamelin, D. R.; Chan, M. K. Y., *Patterns*, **2022**, *3*, 100450.
228. "Coherent Spin Dynamics in Vapor-Deposited $CsPbBr_3$ Thin Films." Jacoby, L. M.; Crane, M. J.; Gamelin, D. R., *Chem. Mater.*, **2022**, *34*, 1937–1945.
227. "Uncovering the Influence of Ni^{2+} Doping in Lead-Halide Perovskite Nanocrystals using Optically Detected Magnetic Resonance Spectroscopy." Barak, Y.; Meir, I.; Dehnel, J.; Horani, F.; Gamelin, D. R.; Shapiro, A.; Lifshitz, E., *Chem. Mater.*, **2022**, *34*, 1686–1698.
226. "Ferromagnetism and Spin-Polarized Luminescence in Lead-Free $CsEuCl_3$ Perovskite Nanocrystals and Thin Films." Walsh, K. M.; Pressler, K.; Crane, M. J.; Gamelin, D. R., *ACS Nano*, **2022**, *16*, 2569–2576.

225. "Consensus Statement: Standardized Reporting of Power-Producing Luminescent Solar Concentrator Performance." Yang, C.; Atwater, H. A.; Baldo, M. A.; Baran, D.; Barile, C.; Barr, M. C.; Bates, M.; Bawendi, M. G.; Bergren, M. R.; Brabec, C. J.; Brovelli, S.; Bulović, V.; Ceroni, P.; Debije, M. G.; Delgado-Sanchez, J.-M.; Dong, W.-J.; Duxbury, P. M.; Evans, R. C.; Forrest, S. R.; Gamelin, D. R.; Giebink, N. C.; Gong, X.; Griffini, G.; Guo, F.; Herrera, C. K.; Ho-Baillie, A. W. Y.; Holmes, R. J.; Hong, S.-K.; Kirchartz, T.; Li, H.; Li, Y.; Liu, D.; Loi, M. A.; Luscombe, C. K.; Makarov, N. S.; Mateen, F.; Mazzaro, R.; McDaniel, H.; McGehee, M. D.; Meinardi, F.; Menéndez-Velázquez, A.; Min, J.; Mitzi, D. B.; Moon, J. H.; Nattestad, A.; Nazeeruddin, M. K.; Nogueira, A. F.; Paetzold, U. W.; Patrick, D. L.; Pucci, A.; Rand, B. P.; Reichmanis, E.; Richards, B. S.; Roncali, J.; Rosei, F.; Schmidt, T. W.; So, F.; Tu, C.-C.; van Sark, W. G. J. H. M.; Verduzco, R.; Vomiero, A.; Wong, W. W. H.; Wu, K.; Yip, H.-L.; Zhang, X.; Zhao, H.; Lunt, R. R., *Joule*, **2022**, *6*, 1–15.
224. "Organic Building Blocks at Inorganic Nanomaterial Interfaces." Huang, Y.; Cohen, T. A.; Sperry, B. M.; Larson, H.; Nguyen, H.; Homer, M.; Dou, F. Y.; Jacoby, L. M.; Cossairt, B. M.; Gamelin, D. R.; Luscombe, C. K., *Mater. Horizons*, **2022**, *9*, 61–87.
223. "Spin-Orbit Coupled Exciton-Polariton Condensates in Lead Halide Perovskites." Spencer, M. S.; Fu, Y.; Schlaus, A. P.; Hwang, D.; Dai, Y.; Smith, M. D.; Gamelin, D. R.; Zhu, X.-Y., *Science Advances*, **2021**, *7*, eabj7667.
222. "Imaging Infrared Plasmon Hybridization in Doped Semiconductor Nanocrystal Dimers." Olafsson, A.; Khorasani, S.; Busche, J. A.; Araujo, J. J.; Idrobo, J. C.; Gamelin, D. R.; Masiello, D. J.; Camden, J. P., *J. Phys. Chem. Lett.,* **2021**, *12*, 10270–10276.
221. "Unraveling Strain Gradient Induced Electromechanical Coupling in Twisted Double Bilayer Graphene Moiré Superlattices." Li, Y.; Wang, X.; Tang, D.; Wang, X.; Watanabe, K.; Taniguchi, T.; Gamelin, D. R.; Cobden, D. H.; Yankowitz, M.; Xu, X.; Li, J., *Adv. Mater.*, **2021**, *33*, 2105879.
220. "Moiré Trions in $MoSe_2/WSe_2$ Heterobilayers." Wang, X.; Zhu, J.; Seyler, K.; Rivera, P.; Zheng, H.-Y.; Wang, Y.; He, M.; Taniguchi, T.; Watanabe, K.; Yan, J.; Mandrus, D. G.; Gamelin, D. R.; Yao, W.; Xu, X., *Nature Nanotech.*, **2021**, *16*, 1208–1213.
219. "Tunable Band-Edge Potentials and Charge Storage in Colloidal Tin-Doped Indium-Oxide (ITO) Nanocrystals." Araujo, J. J.; Brozek, C. K.; Liu, H.; Merkulova, A.; Li, X.; Gamelin, D. R., *ACS Nano,* **2021**, *15*, 14116–14124.
218. "Orientation of Individual Anisotropic Nanocrystals Identified by Polarization Fingerprint." Lorenz, S.; Bieniek, J.; Erickson, C. S.; Gamelin, D. R.; Fainblat, R.; Bacher, G., *ACS Nano*, **2021**, *15*, 13579–13590.
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