

Giorgio Divitini

CURRENT POSITION: Tenure-track Principal Investigator, Istituto Italiano di Tecnologia (IIT), Italy
Director of the “Electron Spectroscopy and Nanoscopy” research unit

OMISSIS

WEBSITE:

NATIONALITY:



EDUCATION

- 2009 – 2012 **University of Cambridge, UK**
PhD in Materials Science - Churchill College
Electron microscopy studies of photo-active TiO₂ nanostructures
Supervisor: Dr. C. Ducati - skills: high resolution electron microscopy, EELS, EDX, electron tomography, FIB, solar cell technologies, aberration-corrected S/TEM, photocatalysis.
- 2005 – 2008 **Universita' degli Studi di Milano, Milan, Italy**
MSc in Physics - 110/110 cum laude
Study of synthesis and characterization of metal-polymer nanocomposite films
- 2002 – 2005 **Universita' degli Studi di Milano, Milan, Italy**
BSc in Physics - 110/110 cum laude
Spectral analysis of a lubricated friction model

WORK EXPERIENCE

- 2021 – present **Tenure-track Principal Investigator** – Istituto Italiano di Tecnologia (IIT), Italy. Head of the “Electron Spectroscopy and Nanoscopy” research unit (7 people). Manager of the associated lab, including a ThermoFisher Spectra300 S/TEM.
- 2017 - 2021 **Staff Scientist / TEM application specialist** – Department of Materials Science, University of Cambridge. Responsible for user access to the Wolfson Electron Microscopy Suite.
- 2012 - 2016 **Post-doctoral research associate - Electron Microscopy group**, Department of Materials Science and Metallurgy, University of Cambridge

TEACHING EXPERIENCE

Supervised PhD students: Qi Wang (start 2021), Basem Qahtan (2021), Giusy Rizzo (2021, co-supervised), Andrea Cicconardi (2022, co-supervised), Tatiana Contino (2022), Mattia Lizzano (2024)

PhD viva examinations:

- 2024, Universitat autonoma de Barcelona / ICN2, Spain
- 2022, Universidade Estadual de Campinas and Université Claude Bernard Lyon 1 Brazil/France
- 2025, Dept. of Physics, University of Genoa

2024 PhD selection committee – Physics Department, University of Genoa

2021 – present **“Transmission Electron Microscopy”** 8h course for PhD students at IIT.

2017 – 2021 **Introductory lectures** for PhD students: “Transmission Electron Microscopy”, “X-ray analysis in SEM and TEM” in Materials Science & Metallurgy and “Introduction to Electron Microscopy” in Physics.
“Scanning electron microscopy” PhD course (assessed)
“Microanalysis” PhD course (assessed)
Assessor - PhD first year viva: T. Zhao, L. Bird, A. Sapnik, K. Loeto, J. Ferrer Orri
Assessor for NanoDTC research projects

2009 - 2021 High resolution electron microscopy **practicals for nanoDTC** course
2009 - 2021 **Daily advisor for research projects** (6 students, University of Cambridge)

ACADEMIC CONTRIBUTIONS

2025 **Co-chair, Advanced Characterisation symposium, MATSUSSpring 2026**, Spain.
2025 **Co-chair, Thin films symposium, 17th Multinational Congress on Microscopy**, Slovenia.
2021-present **Organiser, Advanced S/TEM workshop** - ~20 attendees each year, from academia and industry
2018-19 **Co-organiser, Microscopy of Semiconducting Materials XXI conference** (2019)
2016 – 2017 **Co-chair, Gordon Research Seminar “Clusters & Nanostructures”** 2017
2010 – present **Reviewer** - grant applications (DFG – German Research Foundation, SNSF – Swiss National Science Foundation, Hong Kong research grant council), access proposals (ReMade@ARI) and papers (10+ journals)

FUNDING OBTAINED

2022 **Italian Space Agency: SNAPs** (Perovskite-based scintillators for space applications), ~250k EUR
2019-20 **EPSRC Core Equipment: MOWER** (Multidimensional Oriented Workstations, 51,618 GBP) and **INERM** (Inert Transfer for Electron Microscopy of Reactive Materials, 34,843)

SELECTED INVITED PRESENTATIONS

- 1) 2025 BIST Symposium on Microscopy, Nanoscopy and Imaging Sciences, Barcelona (Spain) - 2025
- 2) International Conference on Green Materials and Manufacturing Technology (GMMT), Cambridge (UK) - 2025
- 3) FisMat2025 - Symposium "Emerging Trends and Future Directions in Transmission Electron Microscopy for Materials Science", Venice (Italy) - 2025
- 4) NanoInnovation 2023 Conference - Workshop on Imaging and Nanofabrication in Research for Electronics related Components, Rome (Italy) - 2023
- 5) Nankai-Cambridge International Symposium on Advanced Materials (remote) – 2022
- 6) Electron microscopy and multivariate analysis for dynamical characterisation of perovskite solar cells – “Advanced Materials” workshop, Varna, Bulgaria, 07/2019
- 7) Investigating Perovskites solar cells stability using advanced electron microscopy – 2019 Nankai-Cambridge International Symposium on Advanced Materials – Tianjin, China, 05/2019
- 8) In situ observation of heat-induced degradation of perovskite solar cells – Seminar, INFN, Frascati (Italy), 09/2016
- 9) Investigating interfaces in hybrid composite nanomaterials for energy applications – 2016 International Workshop, Ringberg (Germany), 06/2016.
- 10) CamSES – catalysis, sustainability and entrepreneurship - "Small Science. Big Business." 10/2014
- 11) Dye sensitised solar cells - "Energy Crisis in Pakistan" workshop, Islamabad, 03/2014
- 12) Electron microscopy for Materials Science in Cambridge - Seminar, Politecnico di Milano, Milan, Italy, 28/07/2011

JOURNAL PUBLICATIONS

HYPERLINKS: [GOOGLE SCHOLAR](#) - [SCOPUS](#) - [WEB OF SCIENCE](#)

The following list reports publications up to 19/08/2025 from Google Scholar, including supporting datasets and cover pages.

1. Xu W, Min G, Utama Kosasih F, Dong Y, Ge Z, Gu Q, et al. Unveiling the Role of Guanidinium for Enhanced Charge Extraction in Inverted Perovskite Solar Cells. *ACS Energy Letters*. 2025;10(6):2660–9.
2. Wang Q, Lei M, Cicconardi A, Divitini G. Data-driven classification and prediction of all-inorganic Cs-Pb-Br perovskite crystal structures. *Journal of Energy Chemistry*. 2025;107:203–11.
3. Villanueva FY, Novoa VQ, Rusch P, Toso S, Terban MW, Ivanov YP, et al. Synthesis and Structural Analysis of an Emissive Colloidal Argyrodite Nanocrystal: Canfieldite Ag₈SnS₆. *Journal of the American Chemical Society*. 2025;147(32):29413.
4. Thi-hong-hanh L, Zuo Y, Chatti M, Rizzo M, Griesi A, Annamalai A, et al. Coupling of CuO@ NiBiOx Catalyzed Glycerol

- Oxidation to Carbon Dioxide Reduction Reaction for Enhanced Energy Efficiency. *ANGEWANDTE CHEMIE*. 2025;
5. Tapani T, Caligiuri V, Zou Y, Griesi A, Ivanov YP, Cuscunà M, et al. Disordered plasmonic system with dense copper nano-island morphology. *Nanophotonics*. 2025;14(12):2151–60.
 6. Nogueira MJB, Chauque S, Sperati V, Savio L, Divitini G, Pasquale L, et al. Untreated bamboo biochar as anode material for sustainable lithium ion batteries. *Biomass and Bioenergy*. 2025;193:107511.
 7. Liu R, Shin KH, Zhu Y, Liu Q, Ji B, Sun G, et al. Modulating D33 Coefficients Through In Situ AgF and Ag₂O Growth in PVDF Composites for High-Performance Piezoelectric Nanogenerators. *Advanced Materials Technologies*. 2025;2500012.
 8. Li Z, Ivanov YP, Cabona A, Fratelli A, Toso S, Chakraborty S, et al. Core@ Shell AgBr@ CsPbBr₃ Nanocrystals as Precursors to Hollow Lead Halide Perovskite Nanocubes. *Journal of the American Chemical Society*. 2025;
 9. Le THH, Zuo Y, Chatti M, Rizzo M, Griesi A, Annamalai A, et al. Coupling of CuO@ NiBiOx Catalyzed Glycerol Oxidation to Carbon Dioxide Reduction Reaction for Enhanced Energy Efficiency. *Angewandte Chemie*. 2025;e202502617.
 10. Ghosh S, Pagani G, Macrelli A, Calloni A, Bussetti G, Lucotti A, et al. Wettability and sp²/sp³ ratio effects on supercapacitor performance of N-doped hydrogenated amorphous Carbon Nanofoam. *Chemical Engineering Journal*. 2025;166402.
 11. Fiorini Granieri S, Rovera E, Cecchetti M, Pagano GM, Prato M, Pasquale L, et al. High-power density turbostratic carbon nano-onion functionalized carbon paper electrodes for vanadium flow batteries. *Journal of Energy Storage*. 2025;121:1–12.
 12. Di Russo E, Coccato E, Fontana D, Spataro GM, Carraro C, Bacci L, et al. Ex-situ incorporation of Al in Ge by sputter deposition and pulsed laser melting: a new approach to fabricate hyper-doped Ge: Al alloys. *Applied Surface Science*. 2025;163946.
 13. Casu A, Melis C, Divitini G, Profumo F, Lizzano M, Borghi F, et al. An In Situ TEM Study of the Diffusivity of Gold Atoms in Nanocomposite Thin Films by Zirconia Co-Deposition: Implication for Neuromorphic Devices. *ACS Applied Nano Materials*. 2025;8(4):1762–72.
 14. Cabona A, Toso S, Griesi A, Rizzo M, Ferri M, Rusch P, et al. Synthesis, Growth Mechanism, and Photocatalytic Properties of Metallic-Bi/Bi₁₃S₁₈Br₂ Nano-Bell Heterostructures. *ACS Materials Letters*. 2025;7(5):1707–16.
 15. Yao C, Leahu G, Holicky M, Liu S, Fenech-Salerno B, Lai MC, et al. Thermally conductive hexagonal boron nitride/polymer composites for efficient heat transport. *Advanced Functional Materials*. 2024;34(46):2405235.
 16. Wang Q, Abkenar SK, Cirignano M, Yu H, Wu W, Divitini G. Temperature-dependent photoluminescent behavior of millimeter-scale Cs₄PbBr₆/CsPbBr₃ bulk crystals and their application to white light-emitting diodes. *Journal of Materials Science & Technology*. 2024;179:57–65.
 17. Seno C, Reichholf N, Salutari F, Spadaro MC, Ivanov YP, Divitini G, et al. Epitaxial Core/Shell Nanocrystals of (Europium-Doped) Zirconia and Hafnia. *Journal of the American Chemical Society*. 2024;146(30):20550–5.
 18. Schleusener A, Faraji M, Borreani M, Lauciello S, Pasquale L, Khabbaz Abkenar S, et al. Heterostructures via a Solution-Based Anion Exchange in Microcrystalline 2D Layered Metal-Halide Perovskites. *Advanced Materials*. 2024;36(31):2402924.
 19. Ruta V, Di Liberto G, Moriggi F, Ivanov YP, Divitini G, Bussetti G, et al. Front Cover: Copper Single Atoms Chelated on Ligand-Modified Carbon for Ullmann-type C- O Coupling (ChemSusChem 5/2024). *ChemSusChem*. 2024;17(5):e202400201.
 20. Ruta V, Di Liberto G, Moriggi F, Ivanov YP, Divitini G, Bussetti G, et al. Copper Single Atoms Chelated on Ligand-Modified Carbon for Ullmann-type C- O Coupling. *ChemSusChem*. 2024;17(5):e202301529.
 21. Otero-Martinez C, Zaffalon ML, Ivanov YP, Livakas N, Goldoni L, Divitini G, et al. Ultrasmall CsPbBr₃ blue emissive perovskite quantum dots using k-alloyed Cs₄PbBr₆ nanocrystals as precursors. *ACS Energy Letters*. 2024;9(5):2367–77.
 22. Livakas N, Zito J, Ivanov YP, Otero-Martínez C, Divitini G, Infante I, et al. Nanocrystal Heterostructures Based on Halide Perovskites and Metal Sulfides. *Journal of the American Chemical Society*. 2024;146(40):27571–82.
 23. Liu Z, Llusar J, Karakkal HH, Zhu D, Ivanov YP, Prato M, et al. Amino-Arsine and Amino-Phosphine Based Synthesis of InAs@ InP@ ZnSe core@ shell@ shell Quantum Dots. *Advanced Energy Materials*. 2024;14(47):2402246.
 24. Li Z, Goldoni L, Wu Y, Imran M, Ivanov YP, Divitini G, et al. Exogenous metal cations in the synthesis of cspbbr₃

- nanocrystals and their interplay with tertiary amines. *Journal of the American Chemical Society*. 2024;146(30):20636–48.
25. Guvenc CM, Toso S, Ivanov YP, Saleh G, Balci S, Divitini G, et al. Breaking the Boundaries of the Goldschmidt Tolerance Factor with Ethylammonium Lead Iodide Perovskite Nanocrystals. *ACS nano*. 2024;19(1):1557–65.
 26. Ghosh S, Righi M, Macrelli A, Divitini G, Orecchia D, Maffini A, et al. Front Cover:(ChemSusChem 24/2024). *ChemSusChem*. 2024;17(24):e202482401.
 27. Ghosh S, Righi M, Macrelli A, Divitini G, Orecchia D, Maffini A, et al. Ballistic-aggregated carbon nanofoam in target-side of pulsed laser deposition for energy storage applications. *ChemSusChem*. 2024;17(24):e202400755.
 28. Gebeyehu ZM, Mišeikis V, Forti S, Rossi A, Mishra N, Boschi A, et al. Decoupled High-Mobility Graphene on Cu (111)/Sapphire via Chemical Vapor Deposition. *Advanced Materials*. 2024;36(44):2404590.
 29. Gasparrini C, Douglas J, Yazdanpanah A, Stroud R, Divitini G, Dabalà M, et al. Corrosion of 316L exposed to highly concentrated borated water used as shield in nuclear fusion experimental reactors cooling circuits. *Corrosion Science*. 2024;230:111902.
 30. Franceschin G, Zanini R, Iori G, Longo E, Divitini G, Tromba G, et al. Non-destructive 3D exploration of silicate glass corrosion: a combined multiscale approach from the macro to the nanoscale. *Physical Chemistry Chemical Physics*. 2024;26(12):9697–707.
 31. Duan J, Li J, Divitini G, Cortecchia D, Yuan F, You J, et al. 2D hybrid perovskites: from static and dynamic structures to potential applications. *Advanced Materials*. 2024;36(30):2403455.
 32. De Padova P, Ottaviani C, Olivieri B, Ivanov YP, Divitini G, Di Carlo A. The role of SiO₂ buffer layer in the molecular beam epitaxy growth of CsPbBr₃ perovskite on Si (111). *Scientific Reports*. 2024;14(1):23618.
 33. Casu A, Chiodoni A, Ivanov YP, Divitini G, Milani P, Falqui A. In situ TEM investigation of thermally induced modifications of cluster-assembled gold films undergoing resistive switching: implications for nanostructured neuromorphic devices. *ACS Applied Nano Materials*. 2024;7(7):7203–12.
 34. Caligiuri V, Kwon H, Griesi A, Ivanov YP, Schirato A, Alabastri A, et al. Nanophotonics: Dry synthesis of bi-layer nanoporous metal films as plasmonic metamaterial. 2024;
 35. Caligiuri V, Kwon H, Griesi A, Ivanov YP, Schirato A, Alabastri A, et al. Dry synthesis of bi-layer nanoporous metal films as plasmonic metamaterial. *Nanophotonics*. 2024;13(7):1159–67.
 36. Alshahrani M, Ooi S, Divitini G, Bhadeshia H. Mitigating high temperature hydrogen attack with interphase precipitation. *international journal of hydrogen energy*. 2024;50:189–98.
 37. Zhu D, Bahmani Jalali H, Saleh G, Di Stasio F, Prato M, Polykarpou N, et al. Boosting the Photoluminescence Efficiency of InAs Nanocrystals Synthesized with Aminoarsine via a ZnSe Thick-Shell Overgrowth (*Adv. Mater.* 38/2023). *Advanced Materials*. 2023;35(38):2370272.
 38. Zhu D, Bahmani Jalali H, Saleh G, Di Stasio F, Prato M, Polykarpou N, et al. Boosting the Photoluminescence Efficiency of InAs Nanocrystals Synthesized with Aminoarsine via a ZnSe Thick-Shell Overgrowth. *Advanced Materials*. 2023;35(38):2303621.
 39. Tonon A, Di Russo E, Sgarbossa F, Bacci L, Argiolas N, Scian C, et al. Laser induced crystallization of sputtered MoS₂ thin films. *Materials Science in Semiconductor Processing*. 2023;164:107616.
 40. Rusch P, Toso S, Ivanov YP, Marras S, Divitini G, Manna L. Nanocrystal Heterostructures Based On Halide Perovskites and Lead–Bismuth Chalcogenides. *Chemistry of Materials*. 2023;35(24):10684–93.
 41. Ruf L, Puglia C, De Simoni G, Ivanov YP, Elalaily T, Koch J, et al. Gate-control of superconducting current: relevant parameters and perspectives. 2023;
 42. Ruf L, Elalaily T, Puglia C, Ivanov YP, Joint F, Berke M, et al. Effects of fabrication routes on the control of superconducting currents by gate voltage. *arXiv e-prints*. 2023;arXiv-2304.
 43. Ruf L, Elalaily T, Puglia C, Ivanov YP, Joint F, Berke M, et al. Effects of fabrication routes and material parameters on the control of superconducting currents by gate voltage. *APL Materials*. 2023;11(9).
 44. Reisner E, Fang X, Kalathil S, Divitini G, Qian W. Dataset for 'A three-dimensional hybrid electrode with electroactive microbes for efficient electrogenesis and chemical synthesis'. 2023;
 45. Quarta D, Toso S, Saleh G, Caliandro R, Moliterni A, Griesi A, et al. Mixed valence of bismuth in hexagonal chalcogenide nanocrystals. *Chemistry of Materials*. 2023;35(3):1029–36.

46. Pandya R, Rao A, Chen R, Greenham N, Deschler F, Sadhanala A, et al. Research data supporting "Exciton-Phonon Interactions Govern Charge-Transfer-State Dynamics in CdSe/CdTe Two-Dimensional Colloidal Heterostructures". 2023;
47. Orsborne SR, Gorman J, Weiss LR, Sridhar A, Panjwani NA, Divitini G, et al. Photogeneration of spin quintet triplet-triplet excitations in DNA-assembled pentacene stacks. *Journal of the American Chemical Society*. 2023;145(9):5431–8.
48. Orsborne S, Gorman J, Weiss L, Sridhar A, Panjwani N, Divitini G, et al. Research Data Supporting: Photogeneration of spin quintet triplet-triplet excitations in DNA-assembled pentacene stacks. 2023;
49. Najafli E, Ratso S, Ivanov YP, Gatalo M, Pavko L, Yoruk CR, et al. Sustainable CO₂-derived nanoscale carbon support to a platinum catalyst for oxygen reduction reaction. *ACS Applied Nano Materials*. 2023;6(7):5772–80.
50. Massabuau F, Horton MK, Pearce E, Hammersley S, Chen P, Zielinski MS, et al. Research data supporting "Optical and structural properties of dislocations in InGaN". 2023;
51. Lomonosov V, Wayman TM, Hopper ER, Ivanov YP, Divitini G, Ringe E. Plasmonic magnesium nanoparticles decorated with palladium catalyze thermal and light-driven hydrogenation of acetylene. *Nanoscale*. 2023;15(16):7420–9.
52. Livakas N, Toso S, Ivanov YP, Das T, Chakraborty S, Divitini G, et al. CsPbCl₃→CsPbI₃ exchange in perovskite nanocrystals proceeds through a jump-the-gap reaction mechanism. *Journal of the American Chemical Society*. 2023;145(37):20442–50.
53. Liu Z, Pascazio R, Goldoni L, Maggioni D, Zhu D, Ivanov YP, et al. Colloidal InAs Tetrapods: Impact of Surfactants on the Shape Control. *Journal of the American Chemical Society*. 2023;145(33):18329–39.
54. Kosasih FU, Di Giacomo F, Ferrer Orri J, Li K, Tennyson EM, Li W, et al. Sodium diffuses from glass substrates through P1 lines and passivates defects in perovskite solar modules. *Energy & Environmental Materials*. 2023;6(6):e12459.
55. Kazemi M, Liivand K, Prato M, Vacek P, Walmsley J, Dante S, et al. Graphite and Cobalt Recycled from Li-Ion Batteries: A Valuable Raw Material for Oxygen Reduction Reaction Electrocatalysts. *Energy & Fuels*. 2023;38(1):659–70.
56. Griesi A, Faraji M, Kusch G, Khabbazabkenar S, Borreani M, Lauciello S, et al. Mapping emission heterogeneity in layered halide perovskites using cathodoluminescence. *Nanotechnology*. 2023;35(10):105204.
57. Evans R, Jones B, Kelly E, Cowieson N, Divitini G. Research data supporting Light-Responsive Molecular Release from Cubosomes Using Swell-Squeeze Lattice Control. 2023;
58. Zhu D, Bellato F, Jalali HB, Di Stasio F, Prato M, Ivanov YP, et al. ZnCl₂ Mediated Synthesis of InAs Nanocrystals with Aminoarsine. 2022;
59. Zhu D, Bellato F, Bahmani Jalali H, Di Stasio F, Prato M, Ivanov YP, et al. ZnCl₂ Mediated synthesis of InAs nanocrystals with aminoarsine. *Journal of the American Chemical Society*. 2022;144(23):10515–23.
60. Torsello D, Casalegno V, Divitini G, Ghigo G, Gerbaldo R, Fracasso M, et al. Triple ion beam irradiation of glass-ceramic materials for nuclear fusion technology. *Journal of Nuclear Materials*. 2022;567:153783.
61. Sartori E, Campolucci M, Baranov D, Zeng M, Toso S, Divitini G, et al. Red-emissive nanocrystals of Cs₄Mn_xCd_{1-x}Sb₂Cl₁₂ layered perovskites. *Nanoscale*. 2022;14(2):305–11.
62. Saleh AA, Sayed DM, Nagle-Cocco LA, Divitini G, Ghanem LG, Ducati C, et al. Deciphering the in situ surface reconstruction of supercapacitive bimetallic Ni-Co oxyphosphide during electrochemical activation using multivariate statistical analyses. *ACS Applied Energy Materials*. 2022;5(6):7661–73.
63. Orri JF, Kosasih F, Sun Y, Kusch G, Divitini G, Oliver R, et al. Using Cathodoluminescence from Continuous and Pulsed-Mode SEM to Elucidate the Nanostructure of Hybrid Halide Perovskite Materials. *Microscopy and Microanalysis*. 2022;28(S1):2006–8.
64. Moreira M, Hillenkamp M, Divitini G, Tizei LH, Ducati C, Cotta MA, et al. Improving quantitative EDS chemical analysis of alloy nanoparticles by PCA denoising: Part I, reducing reconstruction bias. *Microscopy and Microanalysis*. 2022;28(2):338–49.
65. McHugh LN, Thorne MF, Robertson G, Divitini G, Bennett TD. Properties of Single-Component Metal–Organic Framework Crystal-Glass Composites. *Chemistry—A European Journal*. 2022;28(7):e202104026.
66. Liu Z, Sinatra L, Lutfullin M, Ivanov YP, Divitini G, De Trizio L, et al. One hundred-nanometer-sized CsPbBr₃/m-SiO₂

composites prepared via molten-salts synthesis are optimal green phosphors for LCD display devices. *Advanced Energy Materials*. 2022;12(38):2201948.

67. Kosasih FU, Divitini G, Orri JF, Tennyson EM, Kusch G, Oliver RA, et al. Optical emission from focused ion beam milled halide perovskite device cross-sections. *Microscopy Research and Technique*. 2022;85(6):2351–5.
68. Jones BE, Kelly EA, Cowieson N, Divitini G, Evans RC. Light-responsive molecular release from cubosomes using swell-squeeze lattice control. *Journal of the American Chemical Society*. 2022;144(42):19532–41.
69. Cirillo C, Caputo M, Divitini G, Robinson J, Attanasio C. Polycrystalline NbRe superconducting films deposited by direct current magnetron sputtering. *Thin Solid Films*. 2022;758:139450.
70. Carrington ME, Rampal N, Madden DG, O’Nolan D, Casati NPM, Divitini G, et al. Sol-gel processing of a covalent organic framework for the generation of hierarchically porous monolithic adsorbents. *Chem*. 2022;8(11):2961–77.
71. Bahmani Jalali H, Pianetti A, Zito J, Imran M, Campolucci M, Ivanov YP, et al. Cesium manganese bromide nanocrystal sensitizers for broadband Vis-to-NIR downshifting. *ACS Energy Letters*. 2022;7(5):1850–8.
72. Yang C, Cheng Z, Divitini G, Qian C, Hou B, Liao Y. A Ni or Co single atom anchored conjugated microporous polymer for high-performance photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*. 2021;9(35):19894–900.
73. Xi J, Byeon J, Kim U, Bang K, Han GR, Kim JY, et al. Abnormal spatial heterogeneity governing the charge-carrier mechanism in efficient Ruddlesden–Popper perovskite solar cells. *Energy & Environmental Science*. 2021;14(9):4915–25.
74. Sapnik AF, Johnstone DN, Collins SM, Divitini G, Bumstead AM, Ashling CW, et al. Stepwise collapse of a giant pore metal–organic framework. *Dalton Transactions*. 2021;50(14):5011–22.
75. Sapnik AF, Bechis I, Collins SM, Johnstone DN, Divitini G, Smith AJ, et al. Mixed hierarchical local structure in a disordered metal–organic framework. *Nature Communications*. 2021;12(1):2062.
76. Remmel AL, Ratso S, Divitini G, Danilson M, Mikli V, Uibu M, et al. Nickel and nitrogen-doped bifunctional ORR and HER electrocatalysts derived from CO₂. *ACS Sustainable Chemistry & Engineering*. 2021;10(1):134–45.
77. Qian P, Swainsbury DJ, Croll TI, Castro-Hartmann P, Divitini G, Sader K, et al. Cryo-EM structure of the *Rhodobacter sphaeroides* light-harvesting 2 complex at 2.1 Å. *Biochemistry*. 2021;60(44):3302–14.
78. Orri JF, Tennyson EM, Kusch G, Divitini G, Macpherson S, Oliver RA, et al. Using pulsed mode scanning electron microscopy for cathodoluminescence studies on hybrid perovskite films. *Nano Express*. 2021;2(2):024002.
79. Nia NY, Zendejdel M, Abdi-Jalebi M, Castriotta LA, Kosasih FU, Lamanna E, et al. Beyond 17% stable perovskite solar module via polaron arrangement of tuned polymeric hole transport layer. *Nano Energy*. 2021;82:105685.
80. Kosasih FU, Cacovich S, Divitini G, Ducati C. Nanometric chemical analysis of beam-sensitive materials: a case study of STEM-EDX on perovskite solar cells. *Small Methods*. 2021;5(2):2000835.
81. Gspann TS, Kaniyoor A, Tan W, Kloza PA, Bulmer JS, Mizen J, et al. Catalyst-mediated enhancement of carbon nanotube textiles by laser irradiation: Nanoparticle sweating and bundle alignment. *Catalysts*. 2021;11(3):368.
82. Gspann T, Kaniyoor A, Tan W, Kloza P, Bulmer J, Mizen J, et al. Dataset for Catalyst-Mediated Enhancement of Carbon Nanotube Textiles by Laser Irradiation: Nanoparticle Sweating and Bundle Alignment. 2021;
83. Ferrer Orri J, Tennyson EM, Kusch G, Divitini G, Macpherson SM, Oliver RA, et al. Research data supporting "Using pulsed mode scanning electron microscopy for cathodoluminescence studies on hybrid perovskite films". 2021;
84. Chen X, Zhuang Y, Rampal N, Hewitt R, Divitini G, O’Keefe CA, et al. Formulation of metal–organic framework-based drug carriers by controlled coordination of methoxy PEG phosphate: boosting colloidal stability and redispersibility. *Journal of the American Chemical Society*. 2021;143(34):13557–72.
85. Bennett T, Sapnik A, Bechis I, Collins S, Johnstone D, Divitini G, et al. Research Data Supporting Mixed Hierarchical Local Structure in a Disordered Metal–Organic Framework. 2021;
86. Zhao B, Lian Y, Cui L, Divitini G, Kusch G, Ruggeri E, et al. Efficient light-emitting diodes from mixed-dimensional perovskites on a fluoride interface. *Nature electronics*. 2020;3(11):704–10.
87. She XJ, Chen C, Divitini G, Zhao B, Li Y, Wang J, et al. A solvent-based surface cleaning and passivation technique for suppressing ionic defects in high-mobility perovskite field-effect transistors. *Nature Electronics*. 2020;3(11):694–703.
88. Sapnik A, Johnstone D, Collins SM, Divitini G, Bumstead A, Ashling C, et al. Engineering Porosity Through Defects in

a Giant Pore Metal–Organic Framework. 2020;

89. Palomares Garcia C, Di Bernardo A, Kimbell G, Vickers M, Massabuau F, Komori S, et al. Research data supporting: Pair suppression caused by mosaic-twist defects in superconducting Sr₂RuO₄ thin-films prepared using pulsed laser deposition. (No Title). 2020;
90. Massabuau FP, Springbett H, Divitini G, Griffin P, Zhu T, Oliver R. Sequential plan-view imaging of sub-surface structures in the transmission electron microscope. *Materialia*. 2020;12:100798.
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PATENTS

Photocatalytic composites (EP2900376A1) – priority date: September 2012. Inventors (alphabetical): **G. Divitini**, C. Ducati, R. V. Kumar, N. Ullah

Method for preparing an inorganic halide perovskite thin film (IT102023000025272) – priority date: November 2023. Inventors: I.P. De Padova, C. Ottaviani, A. Di Carlo, **G. Divitini**, I. Ivanov