Giorgio Divitini

POSIZIONE ATTUALE: Tenure-track Principal Investigator, Istituto Italiano di Tecnologia (IIT), Italia

ISTRUZIONE

2009 – 2012	**University of Cambridge, UK** **PhD in Materials Science - Churchill College** *Electron microscopy studies of photo-active TiO_2 nanostructures* Supervisore: Dr. C. Ducati
2005 – 2008	**Universita' degli Studi di Milano, Milan, Italy** **Laurea Specialistica in Fisica - 110/110 *cum laude*** *Study of synthesis and characterization of metal-polymer nanocomposite films* Supervisore: Prof. P. Milani
2002 – 2005	**Universita' degli Studi di Milano, Milan, Italy** **Laurea Triennale in Fisica - 110/110 *cum laude*** *Spectral analysis of a lubricated friction model* Supervisore: Prof. N. Manini

Esperienza lavorativa

2021 – present	**Tenure-track Principal Investigator** – Istituto Italiano di Tecnologia (IIT), Italia. Responsabile per il microscopio elettronico attualmente piu' avanzato per scienza dei materiali in Italia.
2018 - 2021	**Cambridge Pharmaceutical Cryo-EM Consortium** – Rappresentante dell'Universita' di Cambridge nel comitato del consorzio, gestendo interazioni con 5 ditte farmaceutiche su un progetto di 3 anni.
2017 - 2021	**Staff Scientist / tecnologo** – Department of Materials Science, University of Cambridge. Responsabile per accesso utenti alla Wolfson Electron Microscopy Suite. 1. Supervisione operazione della facility, inclusi 14 microscopi elettronici (7 TEM, 2 FIB/SEM, 5 SEM), e nuove installazioni (2 TEM, 1 FIB/SEM, 2 SEM). Partecipazione in selezione di strumenti (3 bandi, totale >5M GBP). 2. Insegnamento di corsi su microscopia elettronica e microanalisi per student PhD. 3. Progetti di caratterizzazione industriali
2012 - 2016	**Post-doctoral research associate - Electron Microscopy group**, Department of Materials Science and Metallurgy, University of Cambridge
2008 (9 months)	**Ricercatore, Laboratorio Getti Molecolari** (LGM), Milano, Italia Sintesi e caratterizzazione di nanocomposite metallo/polimero

Attivita' accademiche

2019 – 2021	**Comitato di gestione**, Time-resolved cathodoluminescence SEM, grant EP/R025193/1
2016 – 2017	**Chair, Gordon Research Seminar** "Clusters & Nanostructures" 2017
2010 – present	Revisore - bandi (DFG – Ente di ricerca tedesco) e pubblicazioni scientifiche (10+ giornali)
	ESTEEM3 (**H2020** project): Transnational access – 12 days (internal access rate total: 6,960 GBP)

Pubblicazioni scientifiche

HYPERLINKS: GOOGLE SCHOLAR - SCOPUS - WEB OF SCIENCE

1. *Using pulsed mode scanning electron microscopy for cathodoluminescence studies on hybrid perovskite films* – J. Ferrer Orri, E.M. Tennyson, G. Kusch, G. Divitini, S. Macpherson, R.A. Oliver, C. Ducati, S.D. Stranks
Nano Express, 2021

2. *Nanometric Chemical Analysis of Beam-Sensitive Materials: A Case Study of STEM-EDX on Perovskite Solar Cells* – F.U. Kosasih, S. Cacovich, G. Divitini, C. Ducati
   Small Methods, 2021
3. *Red-Emissive Nanocrystals of Cs 4 Mn x Cd 1-x Sb 2 Cl 12 Layered Perovskite* – E. Sartori, M. Campolucci, D. Baranov, M. Zeng, S. Toso, G. Divitini, M. Ferretti, Z. Hens, L. Manna, F. Locardi
   Nanoscale, 2021
4. *Abnormal spatial heterogeneity governing the charge-carrier mechanism in efficient Ruddlesden–Popper perovskite solar cells* – J. Xi, J. Byeon, U. Kim, K. Bang, G. Rim Han, J.-Y. Kim, J. Yoon, H. Dong, Z. Wu, G. Divitini, K. Xi, J. Park, T.-W. Lee, S. Keun Kim, M. Choi, J. Woo Lee
   Energy & Environmental Science, 2021
5. *Ni-Co single atomic anchored conjugated microporous polymer for high-performance photocatalytic hydrogen evolution* – C. Yang, Z. Cheng, G. Divitini, C. Qian, B. Hou, Y. Liao
   Journal of Materials Chemistry A, 2021
6. *Stepwise collapse of a giant pore metal–organic framework* – A.F. Sapnik, D.N. Johnstone, S.M. Collins, G. Divitini, A.M. Bumstead, C.W. Ashling, P.A. Chater, D.S. Keeble, T. Johnson, D.A. Keen, T.D. Bennett
   Dalton Transactions, 2021
7. *Colloidal Synthesis and Optical Properties of Perovskite-Inspired Cesium Zirconium Halide Nanocrystals* – A. Abfalterer, J. Shamsi, D.J. Kubicki, C.N. Savory, J. Xiao, G. Divitini, W. Li, S. Macpherson, K. Gałkowski, J.L. MacManus-Driscoll, D.O. Scanlon, S.D. Stranks
   ACS Materials Letters, 2020
8. *A solvent-based surface cleaning and passivation technique for suppressing ionic defects in high-mobility perovskite field-effect transistors* – X.-J. She, C. Chen, G. Divitini, B. Zhao, Y. Li, J. Wang, J. Ferrer Orri, L. Cui, W. Xu, J. Peng, S. Wang, A. Sadhanala, H. Sirringhaus
   Nature Electronics, 2020
9. *Efficient light-emitting diodes from mixed-dimensional perovskites on a fluoride interface* – B. Zhao, Y. Lian, L. Cui, G. Divitini, G. Kusch, E. Ruggeri, F. Auras, W. Li, D. Yang, B. Zhu, R.A. Oliver, J.L. MacManus-Driscoll, S.D. Stranks, D. Di, R.H. Friend
   Nature Electronics, 2020
10. *Non-Equilibrium Synthesis of Highly Active Nanostructured, Oxygen-Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst* – G. Giuffredi, A. Mezzetti, A. Perego, P. Mazzolini, M. Prato, F. Fumagalli, Y-C. Lin, C. Liu, I.N. Ivanov, A. Belianinov, M. Colombo, **G. Divitini**, C. Ducati, G. Duscher, A.A. Puretzky, D.B. Geohegan, F. Di Fonzo
    Small, 2020
11. ***** *Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites* – T.A.S. Doherty, […], **G. Divitini**, M.K.L. Man, C. Ducati, A. Walsh, P.A. Midgley, K. Dani, S.D. Stranks
    Nature, 2020
12. *Sequential plan-view imaging of sub-surface structures in the transmission electron microscope* – F.C.P. Massabuau, H.P. Springbett, **G. Divitini**, P.H. Griffin, T. Zhu, R.A. Oliver
    Materialia 2020
13. *Ion Migration-Induced Amorphization and Phase Segregation as a Degradation Mechanism in Planar Perovskite Solar Cells* – D. Di Girolamo, N. Phung, F. Utama Kosasih, F. Di Giacomo, F. Matteocci, J.A. Smith, M.A. Flatken, H. Köbler, S.H. Turren Cruz, A. Mattoni, L. Cinà, B. Rech, A. Latini, **G. Divitini**, C. Ducati, A. Di Carlo, D. Dini, A. Abate
    Advanced Energy Materials, 2020
14. *Pair suppression caused by mosaic-twist defects in superconducting Sr2RuO4 thin-films prepared using pulsed laser deposition* – C.M. Palomares García, A. Di Bernardo, G. Kimbell, M.E. Vickers, F.C.P. Massabuau, S. Komori, **G. Divitini**, Y. Yasui, H.G. Lee, J. Kim, B. Kim, M.G. Blamire, A. Vecchione, R. Fittipaldi, Y. Maeno, T.W. Noh, J.W.A. Robinson
    Communications Materials, 2020
15. *A three-dimensional hybrid electrode with electroactive microbes for efficient electrogenesis and chemical synthesis* – X. Fang, S. Kalathil, **G. Divitini**, Q. Wang, E. Reisner
    PNAS, 2020
16. *Structural Characterization of Mesoporous Thin Film Architectures: A Tutorial Overview* – A. Alvarez-Fernandez, B. Reid, M.J. Fornerod, A. Taylor, **G. Divitini**, S. Guldin
    ACS Applied Materials & Interfaces, 2020
17. *Exchange-bias via nanosegregation in novel Fe 2− x Mn 1+ x Al (x=− 0.25, 0, 0.25) Heusler films* – S. Kurdi, M. Ghidini**, G. Divitini**, B. Nair, A. Kursumovic, P. Tiberto, S.S. Dhesi, Z.H. Barber

Nanoscale Advances, 2020

18. *A Single-Component Photorheological Fluid with Light-Responsive Viscosity* – E.A. Kelly, N. Willis-Fox, J.E. Houston, C. Blayo, **G. Divitini**, N. Cowieson, R. Daly, R.C. Evans
Nanoscale (accepted for publication, 2020)
19. *A three-dimensional hybrid electrode with electroactive microbes for efficient electrogenesis and chemical synthesis* – X. Fang, S. Kalathil, **G. Divitini**, Q. Wang, E. Reisner
Proceedings of the National Academy of Sciences, 2020
20. *Structural Characterization of Mesoporous Thin Film Architectures: A Tutorial Overview* – A. Alvarez-Fernandez, B. Reid, M.J. Fornerod, A. Taylor, **G. Divitini**, S. Guldin
ACS Appl. Mater. Interfaces, 2020
21. *Sequentially Deposited versus Conventional Nonfullerene Organic Solar Cells: Interfacial Trap States, Vertical Stratification, and Exciton Dissociation* – J. Zhang, M.H. Futscher, V. Lami, F.U. Kosasih, C. Cho, Q. Gu, A. Sadhanala, A.J. Pearson, B. Kan, **G. Divitini**, X. Wan, D. Credgington, N.C. Greenham, Y. Chen, C. Ducati, B. Ehrler, Y. Vaynzof, R.H. Friend, A.A. Bakulin
Adv. Energy Materials, 2019
22. *All-Optical Detection of Neuronal Membrane Depolarization in Live Cells Using Colloidal Quantum Dots* – M. Caglar, R. Pandya, J. Xiao, S.K. Foster, **G. Divitini**, R.Y.S. Chen, N.C. Greenham, K. Franze, A. Rao, U.F. Keyser
Nano Lett., 2019
23. *Nodal superconducting exchange coupling* – A. Di Bernardo, S. Komori, G. Livanas, **G. Divitini**, P. Gentile, M. Cuoco, J.W.A. Robinson
Nature Materials, 2019
24. *Stability and Dark Hysteresis Correlate in NiO-based Perovskite Solar Cells* – D. Di Girolamo, F. Matteocci, F.U. Kosasih, G. Chistiakova, W. Zuo, **G. Divitini**, L. Korte, C. Ducati, A. Di Carlo, D. Dini, A. Abate
Advanced Energy Materials, 2019
25. *Microsecond Carrier Lifetimes, Controlled p-Doping, and Enhanced Air Stability in Low-Bandgap Metal Halide Perovskites* – A.R. Bowman, M.T. Klug, T.A.S. Doherty, M.D. Farrar, S.P. Senanayak, B. Wenger, **G. Divitini**, E.P. Booker, Z. Andaji-Garmaroudi, S. Macpherson, E. Ruggeri, H. Sirringhaus, H.J. Snaith, S.D. Stranks
ACS Energy Lett., 2019
26. *Fabrication and Morphological Characterization of High-Efficiency Blade-Coated Perovskite Solar Modules* – F. Matteocci, L. Vesce, F. Utama Kosasih, L.A. Castriotta, S. Cacovich, A.L. Palma, **G. Divitini**, C. Ducati, A. Di Carlo
ACS Appl. Mater. Interfaces, 2019
27. *Optical and structural properties of dislocations in InGaN* – F.C.-P. Massabuau, M.K. Horton, E. Pearce, S. Hammersley, P. Chen, M.S. Zielinski, T.F.K. Weatherley, **G. Divitini**, P.R. Edwards, M.J. Kappers, C. McAleese, M.A. Moram, C.J. Humphreys, P. Dawson, R.A. Oliver
Journal of Applied Physics, 2019
28. *High throughput production of single-wall carbon nanotube fibres independent of sulfur-source* – A. Kaniyoor, J. Bulmer, T. Gspann, J. Mizen, J. Ryley, P. Kiley, J. Terrones, C. Miranda-Reyes, **G. Divitini**, M. Sparkes, B. O'Neill, A. Windle, J.A. Elliott
Nanoscale, 2019
29. *In vitro evaluation of experimental light activated gels for tooth bleaching* – C. Kurzmann, J. Verheyen, M. Coto, R.V. Kumar, **G. Divitini**, H.A. Shokoohi-Tabrizi, P. Verheyen, R.J. Gentil De Moor, A. Moritz, H. Agis
Photochemical & Photobiological Sciences, 2019
30. ***** *Unveiling the Chemical Composition of Halide Perovskite Films Using Multivariate Statistical Analyses* – S. Cacovich, F. Matteocci, M. Abdi-Jalebi, S.D. Stranks, A. Di Carlo, C. Ducati, **G. Divitini**
ACS Appl. Energy Mater., 2018
31. *Core-Shell Electrospun Polycrystalline ZnO Nanofibres for Ultra-Sensitive NO2 Gas Sensing* – A. Aziz, N. Tiwale, S.A. Hodge, S. Attwood, **G. Divitini**, M.E. Welland
ACS Appl. Mater. Interfaces, 2018
32. *Exciton–Phonon Interactions Govern Charge-Transfer-State Dynamics in CdSe/CdTe Two-Dimensional Colloidal Heterostructures* – R. Pandya, R.Y.S. Chen, A. Cheminal, M. Dufour, J.M. Richter, T.H. Thomas, S. Ahmed, A. Sadhanala, E.P. Booker, **G. Divitini**, F. Deschler, N.C. Greenham, S. Ithurria, A. Rao
J. Am. Chem. Soc, 2018
33. *Potassium- and Rubidium-Passivated Alloyed Perovskite Films: Optoelectronic Properties and Moisture Stability* – M. Abdi-Jalebi, Z. Andaji-Garmaroudi, A.J. Pearson, **G. Divitini**, S. Cacovich, B. Philippe, H. Rensmo, C. Ducati, R.H. Friend, S.D. Stranks
ACS Energy Letters, 2018

34. *Dedoping of Lead Halide Perovskites Incorporating Monovalent Cations* – M. Abdi-Jalebi, M. Pazoki, B. Philippe, M.I. Dar, M. Alsari, A. Sadhanala, **G. Divitini**, R. Imani, S. Lilliu, J. Kullgren, H. Rensmo, M. Grätzel, R.H. Friend
ACS Nano, 2018
35. *A Strategy for Architecture Design of Crystalline Perovskite Light-Emitting Diodes with High Performance* – Y. Shi, W. Wu, H. Dong, G. Li, K. Xi, **G. Divitini**, C. Ran, F. Yuan, M. Zhang, B. Jiao, X. Hou, Z. Wu
Advanced Materials, 2018
36. *Hyperbranched TiO 2-CdS Nano-Heterostructures for Highly Efficient Photoelectrochemical Photoanodes* – A. Mezzetti, M. Balandeh, J. Luo, S. Bellani, A. Tacca, **G. Divitini**, C. Cheng, C. Ducati, L. Meda, H. Fan, F. Di Fonzo
Nanotechnology, 2018
37. ***** *Maximizing and stabilizing luminescence from halide perovskites with potassium passivation* – M. Abdi-Jalebi, Z. Andaji-Garmaroudi, S. Cacovich, C. Stavrakas, B. Philippe, J.M. Richter, M. Alsari, E.P. Booker, E.M. Hutter, A.J. Pearson, S. Lilliu, T.J. Savenije, H. Rensmo, **G. Divitini**, C. Ducati, R.H. Friend, S.D. Stranks
Nature, 2018
38. *Sol–Gel Synthesis of Robust Metal–Organic Frameworks for Nanoparticle Encapsulation* – J.P. Mehta, T. Tian, Z. Zeng, **G. Divitini**, B.M. Connolly, P.A. Midgley, J.-C. Tan, D. Fairen-Jimenez, A.E.H. Wheatley
Advanced Functional Materials, 2018
39. *A sol–gel monolithic metal–organic framework with enhanced methane uptake* – T. Tian, Z. Zeng, D. Vulpe, M.E. Casco**, G. Divitini**, P.A. Midgley, J. Silvestre-Albero, J.-C. Tan, P.Z. Moghadam, D. Fairen-Jimenez
Nature Materials, 2018
40. *Nanoscale structural and chemical analysis of F-implanted enhancement-mode InAlN/GaN heterostructure field effect transistors* – F. Tang, K.B. Lee, I. Guiney, M. Frentrup, J.S. Barnard, **G. Divitini**, Z.H. Zaidi, T.L. Martin, P.A. Bagot, M.P. Moody, C.J. Humphreys, P.A. Houston, R.A. Oliver, D.J. Wallis
Journal of Applied Physics, 2018
41. *Advances in the Synthesis and Long-Term Protection of Zero-Valent Iron Nanoparticles* – J.P. Mehta, B.R. Knappett, **G. Divitini**, E. Ringe, P.A. Midgley, D. Fairen-Jimenez, A.E.H. Wheatley
Particle & Particle Systems Characterization, 2018
42. *Chemical vapour deposition of freestanding sub-60 nm graphene gyroids* – T. Cebo, A.I. Aria, J.A. Dolan, R.S. Weatherup, K. Nakanishi, P.R. Kidambi, **G. Divitini**, C. Ducati, U. Steiner, S. Hofmann
Applied Physics Letters, 2017
43. *Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics* – T. Carey, S. Cacovich, **G. Divitini**, J. Ren, A. Mansouri, J.M. Kim, C. Wang, C. Ducati, R. Sordan, F. Torrisi
Nature Communications, 2017
44. *A Praline-Like Flexible Interlayer with Highly Mounted Polysulfide Anchors for Lithium–Sulfur Batteries* – T. Zhao, Y. Ye, C.-Y. Lao, **G. Divitini**, P.R. Coxon, X. Peng, X. He, H.-K. Kim, K. Xi, C. Ducati, R. Chen, Y. Liu, S. Ramakrishna, R.V. Kumar
Small, 2017
45. *Structural properties of thin-film ferromagnetic topological insulators* – C.L. Richardson, J.M. Devine-Stoneman, **G. Divitini**, M.E. Vickers, C.-Z. Chang, M. Amado, J.S. Moodera, J.W.A. Robinson – Sci. Reports, 2017
46. *High Stability and Ultralow Threshold Amplified Spontaneous Emission from Formamidinium Lead Halide Perovskite Films* – F. Yuan, Z. Wu, H. Dong, J. Xi, K. Xi, **G. Divitini**, B. Jiao, X. Hou, S. Wang, Q. Gong
J. Phys. Chem. C, 2017
47. *Tuning the properties of a black TiO_2-Ag visible light photocatalyst produced by a rapid one-pot chemical reduction* – M. Coto, **G. Divitini**, A. Dey, S. Krishnamurthy, N. Ullah, C. Ducati, R. V. Kumar
Materials Today Chemistry, 2017
48. *Increased Affinity of Small Gold Particles for Glycerol Oxidation over Au/TiO2 Probed by NMR Relaxation Methods* – C. D'Agostino, G. Brett, **G. Divitini**, C. Ducati, G.J. Hutchings, M.D. Mantle, L.F. Gladden
ACS Catalysis, 2017
49. *Towards an electronic grade nanoparticle-assembled silicon thin film by ballistic deposition at room temperature: the deposition method, and structural and electronic properties* – G. Nava, F. Fumagalli, S. Gambino, I. Farella, G. Dell'Erba, D. Beretta, **G. Divitini**, C. Ducati, M. Caironi, A. Cola, F. Di Fonzo
J. Mat. Chem. C, 2017
50. *Gold and iodine diffusion in large area perovskite solar cells under illumination* – S. Cacovich, L. Cinà, F. Matteocci, **G. Divitini**, P.A. Midgley, A. Di Carlo, C. Ducati
Nanoscale, 2017
51. *Advanced lithium–sulfur batteries enabled by a bio-inspired polysulfide adsorptive brush* – T. Zhao, Y. Ye, X. Peng, **G. Divitini**, H.-K. Kim, C.-Y. Lao, P.R. Coxon, K. Xi, Y. Liu, C. Ducati, R. Chen, R.V. Kumar
Adv. Funct. Mat. 26 (46), 2016

52. *Encapsulation for long-term stability enhancement of perovskite solar cells* – F. Matteocci, L. Cinà, E. Lamanna, S. Cacovich, **G. Divitini**, P.A. Midgley, C. Ducati, A. Di Carlo
Nano Energy 30, 2016
53. *Elemental Mapping of Perovskite Solar Cells by Using Multivariate Analysis: An Insight into Degradation Processes* – S. Cacovich, **G. Divitini**, C. Ireland, F. Matteocci, A. Di Carlo, C. Ducati
ChemSusChem 9 (19), 2016
54. *Solid Electrolyte Interphase Growth and Capacity Loss in Silicon Electrodes* – A. L. Michan, **G. Divitini**, A. J. Pell, M. Leskes, C. Ducati, C. P. Grey
J. Am. Chem. Soc., 2016, 138 (25)
55. *In Situ Heat-Induced Replacement of GaAs Nanowires by Au* – V. T. Fauske, J. Huh, **G. Divitini**, D. L. Dheeraj, A. M. Munshi, C. Ducati, H. Weman, B.-O. Fimland, A. T. J. van Helvoort
Nano Lett. 2016, 16 (5)
56. ***** *In situ observation of heat-induced degradation of perovskite solar cells* – **G. Divitini**, S. Cacovich, F. Matteocci, A. Di Carlo, C. Ducati
Nature Energy 15012, 2016
57. *Compressed sensing electron tomography of needle-shaped biological specimens–Potential for improved reconstruction fidelity with reduced dose* – Z. Saghi, **G. Divitini**, B. Winter, R.K. Leary, E. Spiecker, C. Ducati, P.A. Midgley
Ultramicroscopy, 2016
58. *Interface and composition analysis on perovskite solar cells* – F. Matteocci, Y. Busby, J-J. Pireaux, **G. Divitini**, S. Cacovich, C. Ducati, A. Di Carlo
ACS Appl. Mater. Interfaces, 2015
59. *Signature of Magnetic-Dependent Gapless Odd frequency States at Superconductor / Ferromagnet Interfaces* - A. Di Bernardo, S. Diesch, Y. Gu, J. Linder, **G. Divitini**, C. Ducati, E. Scheer, M.G. Blamire and J. W. A. Robinson
Nature Communications 6, 8053, 2015
60. *Local versus long-range diffusion effects of photoexcited states on radiative recombination in organic-inorganic lead halide perovskites* – M. Vrućinić, C. Matthiesen, A. Sadhanala, **G. Divitini**, S. Cacovich, S. E. Dutton, C. Ducati, M. Atatüre, H. Snaith, R. H. Friend, H. Sirringhaus and F. Deschler
Advanced Science, 2, 2015
61. *Quasi-1D Hyperbranched WO_3 Nanostructures for Low Voltage Photoelectrochemical Water-Splitting* – M. Balandeh, A. Mezzetti, A. Tacca, S. Leonardi, G. Marra, **G. Divitini**, C. Ducati, L. Meda and F. Di Fonzo
J. Mater. Chem. A, 2015
62. *Solid state Dye solar cells TiO_2/HTM real interface: role of trapped states from a multiscale modelling perspective* – A. Gagliardi, M. Auf der Maur, D. Gentilini, F. Di Fonzo, A. Abrusci, H. J. Snaith, **G. Divitini**, C. Ducati and A. Di Carlo
Nanoscale, 2015, 7, 1136
63. *Nickel nanoparticles effect on the electrochemical energy storage properties of carbon nanocomposite films* - L. Bettini, **G. Divitini**, C. Ducati, P. Milani, P. Piseri
Nanotechnology **25** 435401, 2014
64. ***** *Nanoscale analysis of a hierarchical hybrid solar cell in 3D* – **G. Divitini**, O. Stenzel, F. Di Fonzo, C.S. Casari, V. Russo, A. Li Bassi, V. Schmidt and C. Ducati
Advanced Functional Materials, 2014, 24
65. *Transformation of molten $SnCl_2$ to SnO_2 nano-single crystals* - A. Kamali, **G. Divitini**, C. Ducati and D. J. Fray
Ceramics international, 40, 6, 2014
66. *Quantitative electron tomography investigation of a TiO_2 based solar cell photoanode* - **G. Divitini**, A. Abrusci, F. Di Fonzo, H. Snaith and C. Ducati
J. Phys.: Conf. Ser. 522 012063, 2014
67. *Nanoscale characterisation of hybrid photovoltaic cells based on C_{61} capped CdSe QDs* - S. Cacovich, **G. Divitini**, E. Capria, A. Fraleoni Morgera, V. Lughi and C. Ducati
J. Phys.: Conf. Ser. 522 012071, 2014
68. *Hyperbranched Quasi-1D Nanostructures for Solid-State Dye-Sensitized Solar Cells* – L. Passoni, F. Ghods, P. Docampo, A. Abrusci, J. Martí-Rujas, M. Ghidelli, **G. Divitini**, C. Ducati, M. Binda, S. Guarnera, A. Li Bassi, C. S. Casari, H. J. Snaith, A. Petrozza and F. Di Fonzo
ACS Nano, 2013, 7 (11)
69. *Self-cleaning antireflective optical coatings* – S. Guldin, P. Kohn, M. Stefik, J. Song, **G. Divitini**, C. Ducati, U. Wiesner and U. Steiner
Nano Lett., 2013, 13 (11)

70. *Polymer Crystallization as a Tool To Pattern Hybrid Nanostructures: Growth of 12 nm ZnO Arrays in Poly(3-hexylthiophene)* - R. Saberi Moghaddam, S. Huettner, Y. Vaynzof, C. Ducati, **G. Divitini**, R.H. Lohwasser, K.P. Musselman, A. Sepe, M.R.J. Scherer, M. Thelakkat, U. Steiner and R.H. Friend
    Nano Lett., 2013, 13 (9)
71. *Bottom-up engineering of the surface roughness of nanostructured cubic zirconia to control cell adhesion* - A.J. Singh, M. Ferri, M. Tamplenizza, F. Borghi, **G. Divitini**, C. Ducati, C. Lenardi, C. Piazzoni, M. Merlini, A. Podestà and P Milani
    Nanotechnology, 23, 475101 (2012)
72. *Correlation between microstructure and thermokinetic characteristics of electrolytic carbon nanomaterials* - A. Kamali, **G. Divitini**, C. Schwandt and D.J. Fray
    Corrosion Science, 2012, 64, 90-97
73. *DNA origami nanopores* – N.A.W. Bell, C.R. Engst, M. Ablay, **G. Divitini**, C. Ducati, T. Liedl, and U.F. Keyser
    Nano Lett., 2012, 12 (1), 512-517
74. *Vertically oriented TiOxNy nano-pillar arrays with embedded Ag nanoparticles for visible-light photocatalysis* - W. Jiang, N. Ullah, **G. Divitini**, C. Ducati, R.V. Kumar, Y. Ding and Z.H. Barber
    Langmuir, 2012, 28 (12), 5427-5431
75. *Flexible and biocompatible microelectrode arrays fabricated by supersonic cluster beam deposition on SU-8* – M. Marelli, **G. Divitini**, C. Collini, L. Ravagnan, G. Corbelli, C. Ghisleri, A. Gianfelice, C. Lenardi, P. Milani and L. Lorenzelli
    J. Micromech. Microeng. 21 045013 (2011)
76. *Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO_2 crystallisation* - S. Guldin, S. Hüttner, P. Tiwana, M.C. Orilall, B. Ülgüt, M. Stefik, P. Docampo, M. Kolle, **G. Divitini**, C. Ducati, S.A.T. Redfern, H.J. Snaith, U. Wiesner, D. Eder and U. Steiner
    Energy Environ. Sci., 2011, 4, 225-233
77. *Hierarchical TiO_2 Photoanode for Dye-Sensitized Solar Cells* – F. Sauvage, F. Di Fonzo, A. Li Bassi, C. S. Casari, V. Russo, **G. Divitini**, C. Ducati, C.E. Bottani, P. Comte and M. Graetzel
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