

PUBLICATION LIST

Paolo G. Radaelli – Dec 2020

Bibliometric analysis (ISI-WOS Report)

Items found	237
Total citations	14,569
Average citations per item	61.5
H-index	57

Publications

List of scientific publications, sorted by publication type and in reverse chronological order. The list excludes published meeting abstracts, editorial material and corrections.

a) Accepted Preprints

- 217 “Half-skyrmions and Bimerons in an antiferromagnetic insulator at room temperature”, H. Jani, J.-C. Lin, J. Chen, J. Harrison, F. Maccherozzi, J. Schad, S. Prakash, C.-B. Eom, A. Ariando, T. Venkatesan and P. G. Radaelli, arXiv:2006.12699, *Nature*, in press, (2021).

b) Articles published in refereed journals

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- 216 “Controlling spin current polarization through non-collinear antiferromagnetism”, T. Nan, C. X. Quintela, J. Irwin, G. Gurung, D. F. Shao, J. Gibbons, N. Campbell, K. Song, S. -Y. Choi, L. Guo, R. D. Johnson, P. Manuel, R. V. Chopdekar, I. Hallsteinsen, T. Tybell, P. J. Ryan, J. -W. Kim, Y. Choi, P. G. Radaelli, D. C. Ralph, E. Y. Tsymbal, M. S. Rzchowski and C. B. Eom, *Nature Communications* **11**, 4671 (2020).
- 215 “Absolute crystal and magnetic chiralities in the langasite compound Ba₃NbFe₃Si₂O₁₄ determined by polarized neutron and x-ray scattering”, N. Qureshi, A. Bombardi, S. Picozzi, P. Barone, E. Lelievre-Berna, X. Xu, C. Stock, D.F. McMorro, A. Hearmon, F. Fabrizi, P.G. Radaelli, S.-W. Cheong, L.C. Chapon, LC, *Phys. Rev. B* **102**, 054417 (2020)
- 214 “Emergent helical texture of electric dipoles”, D.D. Khalyavin, R.D. Johnson, F. Orlandi, P.G. Radaelli, P. Manuel, A.A. Belik, *Science* **369**, 680-684 (2020).
- *213 “Polarizing an antiferromagnet by optical engineering of the crystal field”, A.S. Disa, M. Fechner, T.F. Nova, B.L. Liu, M. Forst, D. Prabhakaran, P.G. Radaelli, A. Cavalleri, *Nature Physics* (2020), <https://doi.org/10.1038/s41567-020-0936-3>.
- 212 “Micromagnetic modeling and imaging of vortex|meron structures in an oxide|heterostructure”, P.G. Radaelli, J.Radaelli, N. Waterfield-Price, R.D. Johnson, *Phys. Rev. B* **101**, 144420 (2020).

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- 211 “Spin-wave directional anisotropies in antiferromagnetic Ba₃NbFe₃Si₂O₁₄”, C. Stock, R.D. Johnson, N. Giles-Donovan, M. Songvilay, J.A. Rodriguez-Rivera, N. Lee, X. Xu, P.G. Radaelli, L.C. Chapon, A. Bombardi, S. Cochran, C. Niedermayer, A. Schneidewind, Z. Husges, Z. Lu, S. Meng, S.-W. Cheong, *Phys. Rev. B* **100**, 134429 (2019)

- 210 “Magnetoelectric domains and their switching mechanism in a Y-type hexaferrite”, F.P. Chmiel, D. Prabhakaran, P. Steadman, J. Chen, R. Fan, R.D. Johnson, P.G. Radaelli, *Phys. Rev. B* **100** 104411 (2019).
- 209 “Revealing the nature of photoluminescence emission in the metal-halide double perovskite $\text{Cs}_2\text{AgBiBr}_6$ ”, S.J. Zelewski, J.M. Urban, A. Surrente, D.K. Maude, A. Kuc, L. Schade, R.D. Johnson, M. Dollmann, P.K. Nayak, H.J. Snaith, P.G. Radaelli, R. Kudrawiec, R.J. Nicholas, P. Plochocka, M. Baranowski, *J. Mater. Chem. C* **7**, 8350-8356 (2019).
- 208 “Magnetic structure and spin-flop transition in the A-site columnar-ordered quadruple perovskite TmMn_3O_6 ”, A.M. Vibhakar, D.D. Khalyavin, P. Manuel, L. Zhang, K. Yamaura, P.G. Radaelli, A.A. Belik, and R.D. Johnson, *Phys. Rev. B* **99**, 104424 (2019).
- 207 “Strain Engineering a Multiferroic Monodomain in Thin-Film BiFeO_3 ”, N.W. Price, A.M. Vibhakar, R.D. Johnson, J. Schad, W. Saenrang, A. Bombardi, F.P. Chmiel, C.B. Eom, and P.G. Radaelli, *Phys. Rev. Applied* **11**, 024035 (2019).
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- 204 “Evolution of Magneto-Orbital order Upon B-Site Electron Doping in $\text{Na}_{1-x}\text{Ca}_x\text{Mn}_7\text{O}_{12}$ Quadruple Perovskite Manganites”, R.D. Johnson, F. Mezzadri, P. Manuel, D.D. Khalyavin, E. Gilioli, and P.G. Radaelli, *Phys. Rev. Lett.* **120**, 257202 (2018).
- *203 “Breaking symmetry with light: Ultrafast ferroelectricity and magnetism from three-phonon coupling”, P.G. Radaelli, *Phys. Rev. B* **97**, 085145 (2018).
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- 199 “Electrical Switching of Magnetic Polarity in a Multiferroic BiFeO_3 Device at Room Temperature”, N.W. Price, R.D. Johnson, W. Saenrang, A. Bombardi, F.P. Chmiel, C.B. Eom, and P.G. Radaelli, *Phys. Rev. Appl.* **8**, 014033 (2017).

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