

PUBLICATIONS

h-index: 9 ORCID:0000-0003-4526-5021

18. **J. Coles**. A Scalable Task-based Approach for Hiding Remote Communication in the Distributed Fast Multiple Method. *To be submitted.*, 2019.
17. **J. Coles** & R. Bieri. A Fully Traceless Cartesian Multipole Formulation for the Distributed Fast Multipole Method. *arXiv e-prints*, arXiv:1811.06332, 2018. *Submitted to Computer Physics Communications*.
16. R. Küng, P. Saha, I. Ferreras, E. Baeten, **J. Coles**, C. Cornen, C. Macmillan, P. Marshall, A. More, L. Oswald, A. Verma, & J. K. Wilcox. Models of gravitational lens candidates from space warps cfhtls. *Mon. Not. R. Astron. Soc.*, 474(3):3700–3713, 2018. Citations: 1.
15. **J. Coles**, C. Houriez, M. Meot-Ner (Mautner), & M. Masella. Extrapolating single organic ion solvation thermochemistry from simulated water nanodroplets. *The Journal of Physical Chemistry B*, 120(35):9402–9409, 2016. Citations: 4.
14. C. Bruderer, J. I. Read, **J. Coles**, D. Leier, E. E. Falco, I. Ferreras, & P. Saha. Light versus dark in strong-lens galaxies: dark matter haloes that are rounder than their stars. *Mon. Not. R. Astron. Soc.*, 456:870–884, 2016. Citations: 11.
13. **J. Coles** & M. Masella. The fast multipole method and point dipole moment polarizable force fields. *J. Chem. Phys.*, 142(2):024109, 2015. Citations: 8.
12. R. Küng, P. Saha, A. More, E. Baeten, **J. Coles**, C. Cornen, C. Macmillan, P. Marshall, S. More, J. Odermatt, A. Verma, & J. K. Wilcox. Gravitational lens modelling in a citizen science context. *Mon. Not. R. Astron. Soc.*, 447:2170–2180, 2015. Citations: 9.
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9. M. Lubini & **J. Coles**. A sampling strategy for high-dimensional spaces applied to free-form gravitational lensing. *Mon. Not. R. Astron. Soc.*, 425:3077–3084, 2012. Citations: 14.
8. M.C. Erat, **J. Coles**, C. Finazzo, B. Knobloch, & R.K.O. Sigel. Accurate analysis of Mg^{2+} binding to RNA: From classical methods to a novel iterative calculation procedure. *Coordination Chemistry Reviews*, 256:279–288, 2012. Citations: 17.
7. F. Courbin, V. Chantry, Y. Revaz, D. Sluse, C. Faure, M. Tewes, E. Eulaers, M. Koleva, I. Asfandiyarov, S. Dye, P. Magain, H. van Winckel, **J. Coles**, P. Saha, M. Ibrahimov, & G. Meylan. COSMOGRAIL: the COSmological MONitoring of GRAVItational Lenses IX. Time delays and N-body realisations of the lens in HE 0435-1223. *ArXiv e-prints*, 2010. Citations: 95.
6. **J. Coles**, P. Saha, & H. M. Schmid. Weak microlensing. *Mon. Not. R. Astron. Soc.*, 402:L21–L24, 2010. Citations: 1.
5. **J. Coles**. A New Estimate of the Hubble Time with Improved Modeling of Gravitational Lenses. *Astrophys. J.*, 679:17–24, 2008. Citations: 64.
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2. **J. Coles** & S. Radziszowski. Computing the Folkman Number $F_v(2, 2, 3; 4)$. *Journal of Combinatorial Mathematics and Combinatorial Computing*, 58:13–22, 2006. Citations: 20.
1. H.-P. Bischof & **J. Coles**. A Movie Is Worth More Than a Million Data Points. *Lecture Notes in Computer Science*, 3514:703–710, 2005. Citations: 2.