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## BOOK CHAPTERS

Editor(s)	Kanesh, Lawqueen; MAITY, SOUMEN; MULUK, KOMAL; Saurabh, Saket
Title	Parameterized Complexity of Fair Feedback Vertex Set Problem
Book Title	Computer Science - Theory and Applications, 250-262.
Book Series	Lecture Notes in Computer Science, Vol. 12159,
Publisher	Springer
URI	<a href="https://link.springer.com/chapter/10.1007%2F978-3-030-50026-9_18">https://link.springer.com/chapter/10.1007%2F978-3-030-50026-9_18</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4974">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4974</a>
Date of Publication	2020-07

## BIOLOGY

Author(s)	CHOWDHARY, SAYALI; MADAN, SOMYA; TOMER, DARSHIKA; MAVRAKIS, MANOS; RIKHY, RICHA
Title	Mitochondrial morphology and activity regulate furrow ingression and contractile ring dynamics in <i>Drosophila</i> cellularization
Citation	Molecular Biology of the Cell.
Publisher	American Society for Cell Biology
URI	<a href="https://doi.org/10.1091/mbc.E20-03-0177">https://doi.org/10.1091/mbc.E20-03-0177</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4977">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4977</a>
Date of Publication	2020-08

Author(s)	DHAWANJEWAR, ABHILESH S.; ROY, ANKIT A.; MADHUSUDHAN, M.S.
Title	A knowledge-based scoring function to assess quaternary associations of proteins
Citation	Bioinformatics, 36(12), 3739-3748.
Publisher	Oxford University Press
URI	<a href="https://doi.org/10.1093/bioinformatics/btaa207">https://doi.org/10.1093/bioinformatics/btaa207</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4938">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4938</a>
Date of Publication	2020-06

Author(s)	DUTTA, SOUMYAJIT; Bhadury, Punyasloke
Title	Effect of arsenic on exopolysaccharide production in a diazotrophic cyanobacterium
Citation	Journal of Applied Phycology.
Publisher	Springer
URI	<a href="https://doi.org/10.1007/s10811-020-02206-0">https://doi.org/10.1007/s10811-020-02206-0</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4979">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4979</a>
Date of Publication	2020-07

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**Author(s)** HARIKRISHNAN, KEERTHI; JOSHI, OMKAR; MADANGIRIKAR, SAILI; BALASUBRAMANIAN, NAGARAJ  
**Title** Cell Derived Matrix Fibulin-1 Associates With Epidermal Growth Factor Receptor to Inhibit Its Activation, Localization and Function in Lung Cancer Calu-1 Cells  
**Citation** Frontiers in Cell and Developmental Biology, 8.  
**Publisher** Frontiers Media S.A.  
**URI** <https://doi.org/10.3389/fcell.2020.00522>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4952>  
**Date of Publication** 2020-07

**Author(s)** KANADE, MANIL; CHAKRABORTY, SUKANYA; SHELKE, SANKET SATISH; PANANGHAT, GAYATHRI  
**Title** A Distinct Motif in a Prokaryotic Small Ras-Like GTPase Highlights Unifying Features of Walker B Motifs in P-Loop NTPases  
**Citation** Journal of Molecular Biology.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jmb.2020.07.024>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4992>  
**Date of Publication** 2020-08

**Author(s)** KANADE, MANIL; SINGH, NINGTHOUJAM BIRJEET; LAGAD, SONAL; BARANWAL, JYOTI; PANANGHAT, GAYATHRI  
**Title** Dual specificity of a prokaryotic GTPase Activating Protein (GAP) to two small Ras-like GTPases in Myxococcus xanthus  
**Citation** The FEBS Journal.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/febs.15513>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4993>  
**Date of Publication** 2020-08

**Author(s)** MAHAJAN, GAURANG; NADKARNI, SUHITA  
**Title** Local design principles at hippocampal synapses revealed by an energy-information trade-off  
**Citation** eNeuro.  
**Publisher** Society for Neuroscience  
**URI** <https://doi.org/10.1523/ENEURO.0521-19.2020>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5001>  
**Date of Publication** 2020-08

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**Author(s)** Mazumder, A.; MOHANTA, S. S. et al.  
**Title** Geographical variation in case fatality rate and doubling time during the COVID-19 pandemic  
**Citation** Epidemiology & Infection, 148.  
**Publisher** Cambridge University Press  
**URI** <https://doi.org/10.1017/S0950268820001685>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4957>  
**Date of Publication** 2020-07

**Author(s)** MISHRA, ABHISHEK; CHAKRABORTY, PARTHA PRATIM; DEY, SUTIRTH  
**Title** Dispersal evolution diminishes the negative density dependence in dispersal  
**Citation** Evolution.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/evo.14070>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4995>  
**Date of Publication** 2020-07

**Author(s)** Roy, Suvam; BAPAT, NIRAJA V.; Derr, Julien; RAJAMANI, SUDHA; Sengupta, Supratim  
**Title** Emergence of ribozyme and tRNA-like structures from mineral-rich muddy pools on prebiotic earth  
**Citation** Journal of Theoretical Biology, 506.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jtbi.2020.110446>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4980>  
**Date of Publication** 2020-12

**Author(s)** SHANBHAG, KARTHIK; MHETRE, AMOL; KHANDELWAL, NEHA; KAMAT, SIDDHESH S.  
**Title** The Lysophosphatidylserines-An Emerging Class of Signalling Lysophospholipids  
**Citation** The Journal of Membrane Biology.  
**Publisher** Springer  
**URI** <https://doi.org/10.1007/s00232-020-00133-2>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4943>  
**Date of Publication** 2020-08

**Author(s)** Sudasinghe, Hiranya; Pethiyagoda, Rohan; Ranasinghe, Ranasinghe Hettiarachchige Tharindu; Raghavan, Rajeev; DAHANUKAR, NEELESH; Meegaskumbura, Madhava

**Title** A molecular phylogeny of the freshwater-fish genus Rasbora (Teleostei: Cyprinidae) in Sri Lanka reveals a remarkable diversification—And a cryptic species

**Citation** Journal of Zoological Systematics and Evolutionary Research.

**Publisher** Wiley

**URI** <https://doi.org/10.1111/jzs.12395>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4958>

**Date of Publication** 2020-08

**Author(s)** Zambon, Paola; Palani, Saravanan; JADHAV, SHEKHAR SANJAY; GAYATHRI, PANANGHAT; Balasubramanian, Mohan K.

**Title** Genetic Suppression of Defective Profilin by Attenuated Myosin II Reveals a Potential Role for Myosin II in Actin Dynamics in vivo in fission yeast

**Citation** Molecular Biology of the Cell.

**Publisher** American Society for Cell Biology

**URI** <https://doi.org/10.1091/mbc.E20-04-0224>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4994>

**Date of Publication** 2020-07

## CHEMISTRY

**Author(s)** BHAT, ZAHID MANZOOR; PANDIT, DEEPAJ; Ardo, Shane; THIMMAPPA, RAVIKUMAR; KOTTAICHAMY, ALAGAR RAJA; DARGILY, NEETHU CHRISTUDAS; DEVENDRACHARI, MRUTHUNJAYACHARI CHATTANAHALLI; THOTIYL, MUSTHAF OTTAKAM

**Title** An Electrochemical Neutralization Cell for Spontaneous Water Desalination

**Citation** Joule, 4(8), 1730-1742.

**Publisher** Elsevier Inc.

**URI** <https://doi.org/10.1016/j.joule.2020.07.001>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4987>

**Date of Publication** 2020-08

**Author(s)** BHINGARDEVE, PRAMOD; Madhanagopal, Bharath Raj; Naick, Hemanth; JAIN, PRASHANT; Manoharan, Muthiah; GANESH, KRISHNA  
**Title** Receptor-Specific Delivery of Peptide Nucleic Acids Conjugated to Three Sequentially Linked *N*-Acetyl Galactosamine Moieties into Hepatocytes  
**Citation** Journal of Organic Chemistry, 85(14), 8812-8824.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.joc.0c00601>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4948>  
**Date of Publication** 2020-06

**Author(s)** CHAKRABORTY, RAYAN; NAG, ANGSUMAN  
**Title** Correlation of Dielectric Confinement and Excitonic Binding Energy in 2D Layered Hybrid Perovskites Using Temperature Dependent Photoluminescence  
**Citation** Journal of Physical Chemistry C, 124(29), 16177-16185.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcc.0c04284>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4981>  
**Date of Publication** 2020-07

**Author(s)** DUTTA, SUBHAJIT; SAMANTA, PARTHA; JOARDER, BIPLAB; LET, SUMANTA; MAHATO, DEBANJAN; Babarao, Ravichandar; GHOSH, SUJIT K.  
**Title** A Water Stable Cationic MOF with Hydrophobic Pore Surface as Efficient Scavenger of Oxo-anion Pollutants from Water  
**Citation** ACS Applied Materials & Interfaces.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsami.0c13563>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4998>  
**Date of Publication** 2020-08

**Author(s)** HALDAR, SATTWICK; KALEESWARAN, DHANANJAYAN; RASE, DEEPAK; ROY, KINGSHUK; OGALE, SATISHCHANDRA; VAIDHYANATHAN, RAMANATHAN  
**Title** Tuning the electronic energy level of covalent organic frameworks for crafting high-rate Na-ion battery anode  
**Citation** Nanoscale Horizons, 5(8), 1264-1273.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0NH00187B>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4954>  
**Date of Publication** 2020-08

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**Author(s)** MOLLICK, SAMRAJ; FAJAL, SAHEL; SAURABH, SATYAM; MAHATO, DEBANJAN; GHOSH, SUJIT K.  
**Title** Nanotrap Grafted Anion Exchangeable Hybrid Materials for Efficient Removal of Toxic Oxoanions from Water  
**Citation** ACS Central Science.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acscentsci.0c00533>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4999>  
**Date of Publication** 2020-08

**Author(s)** Wakchaure, Vivek C.; KOTTAICHAMY, ALAGAR R.; Nidhankar, Aakash D.; Ranjeesh, Kayaramkodath C.; Nazrulla, Mohammed A.; THOTIYL, MUSTHAFA OTTAKAM; Babu, Sukumaran S  
**Title** Hexaaminobenzene Derived Two-Dimensional Polymer Supercapacitor with High Specific Capacitance and Energy Density  
**Citation** ACS Applied Energy Materials, 3(7), 6352-6359.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsaem.0c00569>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4996>  
**Date of Publication** 2020-07

## EARTH AND CLIMATE SCIENCE

**Author(s)** SAHA, GOKUL KUMAR; Prakasam, K.S.; RAI, SHYAM S.  
**Title** Diversity in the peninsular Indian lithosphere revealed from ambient noise and earthquake tomography  
**Citation** Physics of the Earth and Planetary Interiors, 306.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.pepi.2020.106523>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4988>  
**Date of Publication** 2020-09

## MATHEMATICS

**Author(s)** BHAKTA, MOUSOMI; BISWAS, ANUP; GANGULY, DEBDIP; Montoro, Luigi  
**Title** Integral representation of solutions using Green function for fractional Hardy equations  
**Citation** Journal of Differential Equations, 269(7), 5573-5594.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jde.2020.04.022>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4937>  
**Date of Publication** 2020-09

**Author(s)** Ghosh, Mrinal K.; Kumar, K. Suresh; Pal, Chandan; PRADHAN, SOMNATH  
**Title** Nonzero-sum risk-sensitive stochastic differential games with discounted costs  
**Citation** Stochastic Analysis and Applications.  
**Publisher** Taylor & Francis  
**URI** <https://doi.org/10.1080/07362994.2020.1796707>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4939>  
**Date of Publication** 2020-07

## PHYSICS

**Author(s)** ANANTH, SUDARSHAN; PANDEY, CHETAN; PANT, SAURABH  
**Title** Higher spins, quadratic forms and amplitudes  
**Citation** Journal of High Energy Physics, 2020(7).  
**Publisher** Springer  
**URI** [https://doi.org/10.1007/JHEP07\(2020\)100](https://doi.org/10.1007/JHEP07(2020)100)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4950>  
**Date of Publication** 2020-07

**Author(s)** CHOUGALE, YASHWANT; TALUKDAR, JUGAL; Ramos, Tomás; NATH, REJISH  
**Title** Dynamics of Rydberg excitations and quantum correlations in an atomic array coupled to a photonic crystal waveguide  
**Citation** Physical Review A, 102(2).  
**Publisher** American Physical Society  
**URL** <https://doi.org/10.1103/PhysRevA.102.022816>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4990>  
**Date of Publication** 2020-08

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**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; HEGDE, V.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

**Title** Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at  $\sqrt{s} = 13$  TeV

**Citation** Journal of High Energy Physics, 2020(7).

**Publisher** Springer

**URL** [https://doi.org/10.1007/JHEP07\(2020\)126](https://doi.org/10.1007/JHEP07(2020)126)

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**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

**Title** Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV

**Citation** Journal of High Energy Physics, 2020(7).

**Publisher** Springer

**URL** [https://doi.org/10.1007/JHEP07\(2020\)115](https://doi.org/10.1007/JHEP07(2020)115)

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4940>

**Date of Publication** 2020-07

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

**Title** Measurement of the cross section for  $t\bar{t}$  production with additional jets and b jets in pp collisions at  $\sqrt{s} = 13$  TeV

**Citation** Journal of High Energy Physics, 2020(7).

**Publisher** Springer

**URL** [https://doi.org/10.1007/JHEP07\(2020\)125](https://doi.org/10.1007/JHEP07(2020)125)

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4942>

**Date of Publication** 2020-07

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

**Title** Measurements of  $t\bar{t}H$  Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel

**Citation** Physical Review Letters, 125(6).

**Publisher** American Physical Society

**URL** <https://doi.org/10.1103/PhysRevLett.125.061801>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4989>

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**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.  
**Title** The production of isolated photons in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV  
**Citation** Journal of High Energy Physics, 2020(7).  
**Publisher** Springer  
**URL** [https://doi.org/10.1007/JHEP07\(2020\)116](https://doi.org/10.1007/JHEP07(2020)116)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4956>  
**Date of Publication** 2020-07

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.  
**Title** Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at  $\sqrt{s}=13$ TeV  
**Citation** Physical Review D, 102(3).  
**Publisher** American Physical Society  
**URL** <https://doi.org/10.1103/PhysRevD.102.032003>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5000>  
**Date of Publication** 2020-08

**Author(s)** GOKUL, M. A.; NARAYANAN, VRINDA; RAHMAN, ATIKUR  
**Title** Modulating flow near substrate surface to grow clean and large-area monolayer MoS<sub>2</sub>  
**Citation** Nanotechnology, 31(41).  
**Publisher** IOP Publishing  
**URL** <https://doi.org/10.1088/1361-6528/ab9ed6>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4978>  
**Date of Publication** 2020-07

**Author(s)** HALDAR, SATTWICK; KALEESWARAN, DHANANJAYAN; RASE, DEEPAK; ROY, KINGSHUK; OGALE, SATISHCHANDRA; VAIDHYANATHAN, RAMANATHAN  
**Title** Tuning the electronic energy level of covalent organic frameworks for crafting high-rate Na-ion battery anode  
**Citation** Nanoscale Horizons, 5(8), 1264-1273.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0NH00187B>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4954>  
**Date of Publication** 2020-08

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**Author(s)** Maiti, Tanmay; Agarwal, Pooja; Purkait, Suvankar; SREEJITH, G. J.; Das, Sourin; Biasiol, Giorgio; Sorba, Lucia; Karmakar, Biswajit  
**Title** Magnetic-Field-Dependent Equilibration of Fractional Quantum Hall Edge Modes  
**Citation** Physical Review Letters, 125(7).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevLett.125.076802>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4953>  
**Date of Publication** 2020-08

**Author(s)** McCormack, Gary; NATH, REJISH; Li, Weibin  
**Title** Dynamical excitation of maxon and roton modes in a Rydberg-dressed Bose-Einstein condensate  
**Citation** Physical Review A, 102(2).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevA.102.023319>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4991>  
**Date of Publication** 2020-08

**Author(s)** MUKHI, SUNIL; PODDAR, RAHUL; SINGH, PALASH  
**Title** Contour integrals and the modular S-matrix  
**Citation** Journal of High Energy Physics, 2020(7).  
**Publisher** Springer  
**URL** [https://doi.org/10.1007/JHEP07\(2020\)045](https://doi.org/10.1007/JHEP07(2020)045)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4941>  
**Date of Publication** 2020-07

**Author(s)** SADEKAR, ONKAR; Basu, Urna  
**Title** Zero-current nonequilibrium state in symmetric exclusion process with dichotomous stochastic resetting  
**Citation** Journal of Statistical Mechanics Theory and Experiment, 2020(07).  
**Publisher** IOP Publishing  
**URL** <https://doi.org/10.1088/1742-5468/ab9e5e>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4955>  
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**Author(s)** SHWETA, A.; ATHREYA, RAMANA; SEKHAR, SRIKRISHNA  
**Title** Reenergization of Radio Halo Electrons in the Merging Galaxy Cluster A2163  
**Citation** Astrophysical Journal, 897(2).  
**Publisher** IOP Publishing  
**URL** <https://doi.org/10.3847/1538-4357/ab962c>  
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