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Monthly Bulletin of Publications:  
Faculty, Scientists and Students of IISER Pune.  
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# BIOLOGY

- Author(s)** HARISH, ROHIT KRISHNAN; TENDULKAR, SHWETA; DEIVASIGAMANI, SENTHILKUMAR; Ratnaparkhi, Anuradha; RATNAPARKHI, GIRISH S.
- Title** Monensin Sensitive 1 Regulates Dendritic Arborization in Drosophila by Modulating Endocytic Flux
- Citation** Frontiers in Cell and Developmental Biology,7.
- Publisher** Frontiers Media SA
- URI** <https://doi.org/10.3389/fcell.2019.00145>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3803>
- Date of Publication** 02-08-2019
- 
- Author(s)** KONDHARE, KIRTIKUMAR R.; VETAL, PALLAVI V.; KALSI, HARPREET S.; BANERJEE, ANJAN K.
- Title** BEL1-like protein (StBEL5) regulates CYCLING DOF FACTOR1 (StCDF1) through tandem TGAC core motifs in potato
- Citation** Journal of Plant Physiology, 241.
- Publisher** Elsevier B.V.
- URI** <https://doi.org/10.1016/j.jplph.2019.153014>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3808>
- Date of Publication** 31-07-2019
- 
- Author(s)** KUMAR, AMIT; KONDHARE, RAMESHKIRTIKUMAR; VETAL, PALLAVI VIJAY; BANERJEE, ANJAN K.
- Title** PcG proteins MSI1 and BMI1 function upstream of miR156 to regulate aerial tuber formation in potato
- Citation** Plant Physiology.
- Publisher** The American Society of Plant Biologists
- URI** <https://doi.org/10.1104/pp.19.00416>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3807>
- Date of Publication** AUG-2019
- 
- Author(s)** MISHRA, KAMAL K.; SINGH, SANTOSH K.; KUMAR, SATISH; SINGH, GULZAR; Sarkar, Biplab; MADHUSUDHAN, M. S.; DAS, ALOKE
- Title** Water-Mediated Selenium Hydrogen-Bonding in Proteins: PDB Analysis and Gas-Phase Spectroscopy of Model Complexes
- Citation** Journal of Physical Chemistry A, 123(28), 5995-6002.
- Publisher** American Chemical Society
- URI** <https://doi.org/10.1021/acs.jpca.9b04159>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3816>
- Date of Publication** 21-06-2019

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**Author(s)** MUNGI, CHAITANYA; BAPAT, NIRAJA; Hongo, Yayoi; RAJAMANI, SUDHA  
**Title** Formation of Abasic Oligomers in Nonenzymatic Polymerization of Canonical Nucleotides  
**Citation** Life, 9(3).  
**Publisher** MDPI  
**URI** <https://doi.org/10.3390/life9030057>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3818>  
**Date of Publication** 04-07-2019

**Author(s)** Pandey, Siddharth; RAJAMANI, SUDHA; MUNGI, CHAITANYA; BAPAT, NIRAJA et al.  
**Title** Ladakh: diverse, high-altitude extreme environments for off-earth analogue and astrobiology research  
**Citation** International Journal of Astrobiology.  
**Publisher** Cambridge University Press  
**URI** <https://doi.org/10.1017/S1473550419000119>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3817>  
**Date of Publication** 13-06-2019

## CHEMISTRY

**Author(s)** Dutta, Sanjay; Vikas; YADAV, ASHOK; BOOMISHANKAR, RAMAMOORTHY; Bala, Anu; Kumar, Vijay; Chakraborty, Tirthankar; Elizabeth, Suja; Munshi, Parthapratim  
**Title** Record-high thermal stability achieved in a novel single-component all-organic ferroelectric crystal exhibiting polymorphism  
**Citation** Chemical Communications, 55(65), 9610-9613.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/c9cc04434e>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3810>  
**Date of Publication** 09-07-2019

**Author(s)** CHAKRABORTY, DEBANJAN; NANDI, SHYAMAPADA; Illathvalappil, Rajith; MULLANGI, DINESH; MAITY, RAHUL; Singh, Santosh; HALDAR, SATTWICK; Vinod, Chathakudath P.; Kurungot, Sreekumar; VAIDHYANATHAN, RAMANATHAN  
**Title** Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO<sub>2</sub> Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction  
**Citation** ACS Omega, 4(8), 3465-13473.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsomega.9b01777>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3836>  
**Date of Publication** 09-08-2019

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**Author(s)** MISHRA, KAMAL K.; SINGH, SANTOSH K.; KUMAR, SATISH; SINGH, GULZAR; Sarkar, Biplab; MADHUSUDHAN, M. S.; DAS, ALOKE

**Title** Water-Mediated Selenium Hydrogen-Bonding in Proteins: PDB Analysis and Gas-Phase Spectroscopy of Model Complexes

**Citation** Journal of Physical Chemistry A, 123(28), 5995-6002.

**Publisher** American Chemical Society

**URI** <https://doi.org/10.1021/acs.jpca.9b04159>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3816>

**Date of Publication** 21-06-2019

  

**Author(s)** MOLLICK, SAMRAJ; FAJAL, SAHEL; MUKHERJEE, SOUMYA; GHOSH, SUJIT K.

**Title** Stabilizing Metal-Organic Polyhedra (MOP): Issues and Strategies

**Citation** Chemistry: An Asian Journal.

**Publisher** Wiley

**URI** <https://doi.org/10.1002/asia.201900800>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3834>

**Date of Publication** 30-07-2019

  

**Author(s)** NAVALE, BALU S.; LAHA, DEBASISH; BHAT, RAMAKRISHNA G

**Title** Propargyl alpha-aryl-alpha-diazoacetates as robust reagents for the effective C-H bond functionalization of 1,3-diketones via scandium catalysis

**Citation** Tetrahedron Letters, 60(29), 1899-1903.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.tetlet.2019.06.026>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3813>

**Date of Publication** 18-07-2019

  

**Author(s)** RAJENDRA, RANGUWAR; ROY, DEBASHREE; Tripathi, Shalini; BALLAV, NIRMALYA

**Title** Facile Synthesis of Concave Cuboid Au NCs with Precisely Tunable Dimensions and Mechanistic Insight

**Citation** Langmuir, 35(29), 9456-9463.

**Publisher** American Chemical Society

**URI** <https://doi.org/10.1021/acs.langmuir.9b00557>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3821>

**Date of Publication** 01-07-2019

- Author(s)** RANA, SHAMMI; SINDHU, POOJA; BALLAV, NIRMALYA  
**Title** Perspective on the Interfacial Reduction Reaction  
**Citation** Langmuir, 35(30), 9647-9659.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.langmuir.9b01250>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3806>  
**Date of Publication** 08-07-2019
- Author(s)** RAUT, RAVINDRA K.; SAHOO, PADMINI; CHIMNAPURE, DIPTI; MAJUMDAR, MOUMITA  
**Title** Versatile coordinating abilities of acyclic N-4 and N2P2 ligand frameworks in conjunction with Sn[N(SiMe3)(2)](2)  
**Citation** Dalton Transactions, 48(29), 10953-10961.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/c9dt00617f>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3829>  
**Date of Publication** 04-06-2019
- Author(s)** SINGH, SACHIN KUMAR; MUDULI, SUBAS; DHAKRAS, DIPTI; Pandey, Richa; BABAR, ROHIT; SINGH, ANKUR; Kabra, Dinesh; KABIR, MUKUL; BOOMISHANKAR,  
**Title** High power mechanical energy harvester based on exfoliated black phosphorous-polymer composite and its multiple applications  
**Citation** Sustainable Energy & Fuels, 3(8), 1943-1950.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/c9se00267g>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3822>  
**Date of Publication** 26-06-2019
- Author(s)** VIJAYAKANTH, THANGAVEL; Ram, Farsa; Praveenkumar, Balu; Shanmuganathan, Kadhiraavan; BOOMISHANKAR, RAMAMOORTHY  
**Title** All-Organic composites of Ferro- and Piezoelectric Phosphonium salts for mechanical energy harvesting application  
**Citation** Chemistry of Materials, 31(15), 5964-5972.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.chemmater.9b02409>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3832>  
**Date of Publication** 23-07-2019

## EARTH AND CLIMATE SCIENCE

**Author(s)** Voort, Tessa Sophia van der; MANNU, UTSAV; Hagedorn, Frank; McIntyre, Cameron; Walthert, Lorenz; Schleppe, Patrick; Haghypour, Negar; Eglinton, Timothy Ian  
**Title** Dynamics of deep soil carbon - insights from 14C time series across a climatic gradient  
**Citation** Biogeosciences, 16, 3233-3246.  
**Publisher** Copernicus Publications  
**URI** <https://doi.org/10.5194/bg-16-3233-2019>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3833>  
**Date of Publication** 29-08-2019

## HUMANITIES AND SOCIAL SCIENCES

**Author(s)** Shylaja, B.S.; PAI, VENKETESWARA R.  
**Title** Identification of the stars of the Saptarsi Mandala and its vicinity  
**Citation** Journal of Astronomical History and Heritage, 22(2), 294–300.  
**Publisher** National Astronomical Research Institute of Thailand  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3835>  
**Date of Publication** AUG-2019

## MATHEMATICS

**Author(s)** Arapostathis, Ari; BISWAS, ANUP; Caffarelli, Luis  
**Title** On uniqueness of solutions to viscous HJB equations with a subquadratic nonlinearity in the gradient  
**Citation** Communications in Partial Differential Equations.  
**Publisher** Taylor & Francis Inc  
**URI** <https://doi.org/10.1080/03605302.2019.1645697>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3809>  
**Date of Publication** 26-07-2019

**Author(s)** Balakumar, G. P.; BORAH, DIGANTA; Mahajan, Prachi; Verma, Kaushal  
**Title** Remarks on the Higher Dimensional Suita Conjecture  
**Citation** Proceedings of the American Mathematical Society, 147(8), 3401-3411.  
**Publisher** American Mathematical Society  
**URI** <https://doi.org/10.1090/proc/14421>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3814>  
**Date of Publication** 08-05-2019

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# PHYSICS

- Author(s)** BABAR, ROHIT; KABIR, MUKUL  
**Title** Mechanistic insights in phosphorene degradation  
**Citation** Physical Review Materials, 3(7).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevMaterials.3.074008>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3826>  
**Date of Publication** 29-07-2019
- Author(s)** Barman, Basabendu; Bhattacharya, Subhaditya; Ghosh, Purusottam; KADAM, SAURABH; Sahu, Narendra  
**Title** Fermion dark matter with scalar triplet at direct and collider searches  
**Citation** Physical Review D, 100(1).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevD.100.015027>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3820>  
**Date of Publication** 18-07-2019
- Author(s)** BHALERAO, RAJEEV S.; Giacalone, Giuliano; Ollitrault, Jean-Yves  
**Title** Primordial non-Gaussianity in heavy-ion collisions  
**Citation** Physical Review C, 100(1).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevC.100.014909>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3815>  
**Date of Publication** 26-07-2019
- Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, S.; SHARMA, S. et al.  
**Title** Search for charged Higgs bosons in the  $H_{\pm} \rightarrow \tau_{\pm} \nu_{\tau}$  decay channel in proton-proton collisions at  $\sqrt{s}=13$  TeV  
**Citation** Journal of High Energy Physics.  
**Publisher** Springer  
**URI** [https://doi.org/10.1007/JHEP07\(2019\)142](https://doi.org/10.1007/JHEP07(2019)142)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3825>  
**Date of Publication** 24-07-2019

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, S.; SHARMA, S. et al.  
**Title** Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV  
**Citation** Physics Letters B, 795, 398-423.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.physletb.2019.06.021>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3800>  
**Date of Publication** 10-08-2019

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, S.; SHARMA, S. et al.  
**Title** Measurement of electroweak WZ boson production and search for new physics in WZ plus two jets events in pp collisions at root s=13 TeV  
**Citation** Physics Letters B, 795, 281-307.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.physletb.2019.05.042>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3800>  
**Date of Publication** 10-08-2019

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, S.; SHARMA, S. et al.  
**Title** Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV  
**Citation** Physics Letters B, 795, 76-99.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.physletb.2019.05.046>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3802>  
**Date of Publication** 10-08-2019

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, S.; SHARMA, S. et al.  
**Title** Search for the production of (WWW -/+)-W+/-W+/- events at root s=13 TeV  
**Citation** Physical Review D, 100(1).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevD.100.012004>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3804>  
**Date of Publication** 26-07-2019

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**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.  
**Title** Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at  $\sqrt{s(NN)}=5.02$  TeV  
**Citation** Physical Review C, 100(2).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevC.100.024902>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3798>  
**Date of Publication** 01-08-2019

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.  
**Title** Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at  $\sqrt{s(NN)}=5.02$  TeV  
**Citation** Physical Review C, 100(2).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevC.100.024902>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3798>  
**Date of Publication** 01-08-2019

**Author(s)** Dey, Kaustav; Hergett, Waldemar; TELANG, PRACHI; Abdel-Hafiez, Mahmoud M.; Klingeler, Rudiger  
**Title** Magnetic properties of high-pressure optical floating-zone grown LaNiO<sub>3</sub> single crystals  
**Citation** Journal of Crystal Growth, 524.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jcrysgro.2019.125157>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3812>  
**Date of Publication** 15-10-2019

**Author(s)** Kamboj, Suman; ROY, DEEPAK K.; Roy, Susmita; Chowdhury, Rajeswari Roy; Mandal, Prabhat; KABIR, MUKUL; Sheet, Goutam  
**Title** Temperature dependent transport spin-polarization in the low Curie temperature complex itinerant ferromagnet EuTi<sub>1-x</sub>Nb<sub>x</sub>O<sub>3</sub>  
**Citation** Journal of Physics-Condensed Matter, 31(41).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1361-648X/ab2cbd>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3819>  
**Date of Publication** 15-07-2019

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**Author(s)** MONDAL, KRISHNAKANTA; GHOSH, PRASENJIT  
**Title** Exfoliation of Ti<sub>2</sub>C and Ti<sub>3</sub>C<sub>2</sub> Mxenes from bulk trigonal phases of titanium carbide: A theoretical prediction  
**Citation** Solid State Communications, 299.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.ssc.2019.113657>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3823>  
**Date of Publication** SEP-2019

**Author(s)** PANDEY, PADMINI; SHARMA, NEHA; PANCHAL, REENA A.; Gosavi, S. W.; OGALE, SATISHCHANDRA  
**Title** Realization of High Capacity and Cycling Stability in Pb-Free A(2)CuBr(4) (A=CH<sub>3</sub>NH<sub>3</sub>/Cs, 2 D/3 D) Perovskite-Based Li-Ion Battery Anodes  
**Citation** ChemSusChem.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/cssc.201900959>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3799>  
**Date of Publication** 15-07-2019

**Author(s)** PARMAR, SWATI; BISWAS, ABHIJIT; SINGH, SACHIN KUMAR; Ray, Bishakha; Parmar, Saurabh; Gosavi, Suresh; Sathe, Vasant; Choudhary, Ram Janay; Datar, Suvarna; OGALE, SATISHCHANDRA  
**Title** Coexisting 1T/2H-1 polymorphs, reentrant resistivity behavior, and charge distribution in MoS<sub>2</sub>-hBN 2D/2D composite thin films  
**Citation** Physical Review Materials, 3(7).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevMaterials.3.074007>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3827>  
**Date of Publication** 25-07-2019

**Author(s)** SINGH, DAYAL; RAJA, K. SASIKUMAR; SUBRAMANIAN, PRASAD; Ramesh, R.; Monstein, Christian  
**Title** Automated detection of solar radio bursts using a statistical method  
**Citation** Solar Physics.  
**Publisher** Springer  
**URI** <https://doi.org/10.1007/s11207-019-1500-0>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3831>  
**Date of Publication** 26-08-2019

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**Author(s)** SINGH, SACHIN KUMAR; MUDULI, SUBAS; DHAKRAS, DIPTI; Pandey, Richa; BABAR, ROHIT; SINGH, ANKUR; Kabra, Dinesh; KABIR, MUKUL; BOOMISHANKAR, RAMAMOORTHY; OGALE. SATISHCHANDRA

**Title** High power mechanical energy harvester based on exfoliated black phosphorous-polymer composite and its multiple applications

**Citation** Sustainable Energy & Fuels, 3(8), 1943-1950.

**Publisher** Royal Society of Chemistry

**URI** <https://doi.org/10.1039/c9se00267g>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/3822>

**Date of Publication** 26-06-2019

**Author(s)** VASISTA, ADARSH B.; CHAUBEY, SHAILENDRA K.; Gosztola, David J.; Wiederrecht, Gary P.; Gray, Stephen K.; KUMAR, G. V. PAVAN

**Title** Momentum-Resolved Surface Enhanced Raman Scattering from a Nanowire-Nanoparticle Junction Cavity

**Citation** Advanced Optical Materials, 7(15).

**Publisher** Wiley

**URI** <https://doi.org/10.1002/adom.201900304>

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