Google Scholar Profile: Click Here, Home Page: Click Here

List of Publications: Dr. Sk Riyajuddin

1. Super-Hydrophilic Hierarchical Ni-Foam-Graphene-Carbon Nanotubes-Ni_2P-CuP_2 Nano-Architecture as Efficient Electrocatalyst for Overall Water Splitting; **Sk Riyajuddin**, Kashif Azmi, Mansi Pahuja, Sushil Kumar, Takahiro Maruyama, Chandan Bera, and Kaushik Ghosh*; **ACS Nano, 2021, 15, 3, 5586–5599.** (Q1)
2. Super-Hydrophilic leaf-like Sn_4P_3 on Porous Seamless Graphene-Carbon Nanotube Heterostructure as an Efficient Electrocatalyst for Solar-Driven Overall Water Splitting; **Sk Riyajuddin**, Mansi Pahuja, Parrydeep Kaur Sachdeva, Kashif Azmi, Sushil Kumar, Mohd Afshan, Firdaus Ali, Jenifar Sultana, Takahiro Maruyama, Chandan Bera, and Kaushik Ghosh*; **ACS Nano 2022, 16, 4861-4875**. (Q1)
3. 3D-Graphene Decorated with g-C_3N_4/Cu_3P composite: A Noble Metal-free Bifunctional Electrocatalyst for overall water splitting; **Sk Riyajuddin**, Tarik Aziz, Sushil Kumar, Gilbert D Nessim, Kaushik Ghosh*; **ChemCatChem, 2020, 12, 1394-1402.** (Q1)
4. p-i-n Silicon Nanowire Array-NGQD: A Metal-Free Electrocatalyst for Photoelectrochemical Hydrogen Evolution; **Sk Riyajuddin**, Sushil Kumar, Damini badhwar, Shumile Ahmed Siddhiqui, jenifar sultana, Kaushik Ghosh*; **Sustainable Energy and Fuels, 2021, 5, 3160-3171.** (Q1)
5. Silicon Nanowire-Ta_2O_5-NGQD heterostructure: An efficient photocathode for Photoelectrochemical hydrogen evolution; **Sk Riyajuddin**, jenifar sultana, Shumile Ahmed Siddhiqui, Sushil Kumar, Damini badhwar, , Shyam Sundar Yadav, Saveena Goyal, Ananth Venkatesan, Suvankar Chakraverty, Kaushik Ghosh*; **Sustainable Energy and Fuels, 2022, 6, 197-208.** (Q1)
6. Se-Incorporated Porous Carbon/Ni_5P_4 Nanostructures for Electrocatalytic Hydrogen Evolution Reaction with Waste Heat Management; Mansi Pahuja[#], **Sk Riyajuddin[#]**, Mohd Afshan, Shumile Ahmed Siddhiqui, jenifar sultana, Takahiro Maruyama Kaushik Ghosh*; **ACS Applied Nano Materials, 2022, 5, 1385-1396. (#-both authors have an equal contribution)** (Q1)
7. Study of field emission property of pure graphene-CNT heterostructure connected *via* seamless interface; **Sk Riyajuddin**, Sushil Kumar, Khushboo Soni, Surender P. Gaur, Damini Badhwar and Kaushik Ghosh*; **Nanotechnology, 2019, 30, 385702.** (Q1)
8. Linear Piezoresistive Strain Sensor based on Graphene/g-C_3N_4/PDMS Heterostructure; **Sk Riyajuddin**, Sushil Kumar, Aakanksha Sud, Takahiro Maruyama, Md Ehasan Ali*, Kaushik Ghosh*; **Nanotechnology, 2020, 31, 295501.** (Q1)
9. Strategy to improve the super-capacitive and hydrogen evolution performance of graphitic carbon nitrides via enrichment of carbon content; Sushil Kumar, **Sk Riyajuddin**, Kulvinder Singh, Lalit Yadav Takahiro Maruyama, and Kaushik Ghosh*; **Journal of Alloys and Compounds, 2021, 858, 157671.** (Q1)
10. In-situ growth of Urchin Manganese Sulfide Anchored Three-Dimensional Graphene (γ-MnS@3DG) on Carbon Cloth as Flexible Asymmetric Supercapacitor; Sushil Kumar, **Sk Riyajuddin**, Mohd Afshan, SK Tarik Aziz and Kaushik Ghosh*; **The Journal of Physical Chemistry Letters, 2021, 12, 6574-6581.** (Q1)
11. Bimetallic Phosphides for Hybrid Supercapacitors; SK Tarik Aziz, Sushil Kumar, **Sk Riyajuddin**, Kaushik Ghosh, * Gilbert Daniel Nessim,* Deepak P. Dubal*; **Journal of Physical Chemistry Letters, 2021, 12, 5138-5149.** (Q1)
12. Three-Dimensional Graphene Decorated Copper-Phosphide (Cu_3P@ 3DG) Heterostructure as Effective Electrode for Supercapacitor; Subodh Kumar, Tarik Aziz, Sushil Kumar, **Sk Riyajuddin**, Gili Yaniv, Louisa Meshi, Gilbert D Nessim*, Kaushik Ghosh*; **Frontiers in Materials, 2020, 7, 30.** (Q2)
13. Boosting the Supercapacitive Performance via incorporation of Vanadium in Nickel Phosphide Nanoflakes: A High Performance Flexible Renewable Energy Storage Device**;** Mohd Afshan, Sushil Kumar, SK Tarik Aziz, Rishita

Ghosh, Mansi Pahuja, Shumile Ahmed Siddhiqui, Kehkashan Alam, Seema Rani, Daya Rani, Takahiro Maruyama, **Sk Riyajuddin*** Kaushik Ghosh* **ACS Energy and Fuel, 2022, 36, 4076-4086**. (Q1)

14. Electrodes Based on Se Anchored on NiCoP and Carbon Nanofibers for Flexible Energy Storage Devices**;** Mohd Afshan, Sushil Kumar, Daya Rani, Mansi Pahuja, Rishita Ghosh, Shumile Ahmed Siddiqui, **Sk Riyajuddin***, Kaushik Ghosh* **ACS Applied Nano Materials, 2022,5, 15328-15340.** (Q1)
15. Porous Carbon Template Decorated with MOF-Driven Bimetallic Phosphide: A Suitable Heterostructure for the Production of Uninterrupted Green Hydrogen via Renewable Energy Storage Device; Mohd Afshan, Parrydeep Kaur Sachdeva, Daya Rani, Subhabrata Das, Mansi Pahuja, Shumile Ahmed Siddiqui, Seema Rani, Rishita Ghosh, Nikita Chaudhary, Jyoti, **Sk Riyajuddin**, Chandan Bera, Kaushik Ghosh* **Small, 2023, 19, 2304399** (Q1)
16. Harnessing Environmental Sensitivity in SnSe-Based Metal–Semiconductor–Metal Devices: Unveiling Negative Photoconductivity for Enhanced Photodetector Performance and Humidity Sensing; Seema Rani, Subhabrata Das, Shumile Ahmed Siddiqui, Ayushi Jain, Daya Rani, Mansi Pahuja, Nikita Chaudhary, Mohd Afshan, Rishita Ghosh, Devansh Swadia, **Sk Riyajuddin,** Chandan Bera, Kaushik Ghosh*; **ACS Applied Materials & Interfaces, 2024, 16, 26899-26914** (Q1)
17. Graphene-intercalated P_4Se_3@CNF hybrid electrode for sustainable energy storage solution: Enabling high energy density and ultra-long cyclic stability Daya Rani, Raheel Hammad, Mohd Afshan, E M Harini, Mansi Pahuja , Rajashri Urkude , Seema Rani , Shumile Ahmed Siddiqui , Subhabrata Das , Nikita Chaudhary , Rishita Ghosh , **Sk Riyajuddin** , Soumya Ghosh , Kaushik Ghosh*; **Carbon, 2024, 227, 119225** (Q1)
18. Transition metal phosphides as cardinal electrocatalytic materials for alkaline hydrogen production; S.K. Tarik Aziz, Sabiha Sultana, Ashwani Kumar, **Sk Riyajuddin**, Manodip Pal, and Arnab Dutta*, **Cell Reports Physical Science, 2023, 4, 101747**(Q1)
19. Silicon Distyryl-BODIPY Hybrid Photodiode: Moving a Step Ahead from Organic Interface Layer to Type II Band Alignment;Nikita Chaudhary , Komal Gill, Mansi Pahuja , Seema Rani , Subhabrata Das , Manoj,K. Choudhary,S humileAhmed Siddiqui , Daya Rani , Mohd Afshan , Rishita Ghosh , **Sk Riyajuddin** , Soumyaditya Mula, Kaushik Ghosh* **Journal of Alloys and Compounds, 2024, 978, 173389.** (Q1)
20. Phosphorus-Doped Nickel Oxide Micro-Supercapacitor: Unleashing the Power of Energy Storage for Miniaturized Electronic Devices; Shumile Ahmed Siddiqui, Subhabrata Das, Seema Rani, Mohd Afshan, Mansi Pahuja, Ayushi Jain, Daya Rani, Nikita Chaudhary, Jyoti, Rishita Ghosh, **Sk Riyajuddin**, Chandan Bera, Kaushik Ghosh* **Small, 2024,20, 2306756** (Q1)
21. A Janus cerium-doped bismuth oxide electrocatalyst for complete water splitting; S.K. Tarik Aziz, Mayuri Ummekar, Imran Karajagi, **Sk Riyajuddin**, KVR Siddhartha, Abhishek Saini, Ajay Potbhare, Ratiram G.Chaudhary, Vikram Vishal, Prakash C. Ghosh, Arnab Dutta*; **Cell Reports Physical Science, 2022, 3, 101106.** (Q1)
22. Strategy to Improve the Photovoltaic Performance of Si/CuO Heterojunction via Incorporation of Ta_2O_5 Hopping Layer and MXene as Transparent Electrode; Jenifar Sultana, Shumile Ahmed Siddiqui, Mohd Afshan, Rishita Ghosh, Shyam Sundar Yadav, **Sk Riyajuddin**, Mansi Pahuja, Firdaus Ali, Seema Rani, Daya Rani, Kehkashan Alam, Sushil Kumar, Ananth Venkatesan, Kaushik Ghosh*; **ACS Applied Energy Materials, 2022,5, 3941-3951.** (Q1)
23. Room-Temperature Ammonia Detection Using Layered Bi_2Se_3/Bi_2O_3: A Next-Generation Sensor; Biswajit Das, **Sk Riyajuddin**, Kaushik Ghosh, Ranajit Ghosh*; **ACS Applied Electronic Materials, 2023, 5, 948-956.** (Q1)
24. Single-walled carbon nanotubes patterned as aromatic element rings through chemical refluxation method; Swasti Saxena*, Ankit Kumar Srivastava, **Sk Riyajuddin**, Siddhartha Samanta, Sabyasachi Khatua, Aakash Singh; **Materials Today: Proceedings, 2023, https://doi.org/10.1016/j.matpr.2023.01.300** (Q2)
25. Amino acid-capped transition metal ion-doped iron oxide nanoparticles: evaluating drug delivery carrier efficiency and in vitro magnetic resonance image contrasting ability; Bindi Sanghavi, Sucheta De Mondal*, Urja Verma, Suresh Balakrishnan**, Sk Riyajuddin**, Kaushik Ghosh, Mitesh Sarkar, Hemant P Soni* **Journal of the Iranian Chemical Society, 2023, 20,1605-1620.** (Q3)

26. Seamless Architecture of Porous Carbon Matrix Decorated with Ta_2O_5 Nanostructure-based Recyclable Photocatalytic Cartridge for Toxicity Remediation of Industrial Dye Effluents; Mansi Pahuja, Indranil De, Shumile Ahmed Siddiqui, Subhabrata Das, Mohd Afshan, Kehkashan Alam, Sk Riyajuddin, Seema Rani, Rishita Ghosh, Daya Rani, Komal Gill, Manish Singh*, Kaushik Ghosh* **Separation and Purification Technology, 2023, 320, 123685.** (Q1)
27. Constructing a metal-free 2D covalent organic framework for visible-light-driven photocatalytic reduction of CO_2: a sustainable strategy for atmospheric CO_2 utilization; Priyanka Sarkar, Arpita Hazra Chowdhury, **Sk Riyajuddin**, Swarbhanu Ghosh, Sk Manirul Islam*; **Reaction Chemistry & Engineering, 2023, 8, 365-376.** (Q1)
28. Photo-Thermal Catalytic Reduction of Carbon Dioxide: Recent Status and Future Prospects; Sushil Kumar, **Sk Riyajuddin**, Gushandeep Kaur, Kaushik Ghosh*; **Advanced in Nanoscience and Nanotechnology, 2021, 5, 5-19.** (Q2)
29. Reduction of carbon dioxide with mesoporous SnO_2 nanoparticles as active photocatalysts under visible light in water; Arpita Hazra Chowdhury, Anjan Das, **Sk Riyajuddin**, Kaushik Ghosh, Sk Manirul Islam*; **Catalysis Science & Technology, 2019, 9, 6566-6569.** (Q2)
30. Mesoporous covalent organic framework: An active photo-catalyst for formic acid synthesis through carbon dioxide reduction under visible light; Priyanka Sarkar, **Sk Riyajuddin**, Anjan Das, Arpita Hazra Chowdhury, Kaushik Ghosh, Sk Manirul Islam*; **Molecular Catalysis, 2020, 484, 110730.** (Q2)
31. Chitosan-Graphene Oxide Hydrogels with Embedded Magnetic Iron Oxide Nanoparticles for Dye Removal; Nirbhai Singh, **Sk Riyajuddin**, Kaushik Ghosh, Surinder K Mehta, Abhijit Dan*; **ACS Applied Nano Materials, 2019, 2, 7379-7392.** (Q1)
32. Mussel-Inspired UV Protective Organic Coatings via Layer-by-Layer Assembly; Arshdeep Kaur Gill, **Sk Riyajuddin**, Mujeeb Alam, Kaushik Ghosh, Debabrata Patra*; **European Polymer Journal, 2020, 124, 109455.** (Q1)
33. Catalytic Synthesis of Benzimidazoles and Organic Carbamates by Polymer Supported Zinc Catalyst through CO_2 Fixation; Imdadul Haque Biswas, Surajit Biswas, Md Sarikul Islam, **Sk Riyajuddin**, Priyanka Sarkar, Kaushik Ghosh, SM Islam*; **New Journal of Chemistry, 2019, 43, 14643-14652.** (Q2)
34. Cu-NPs@COF: A potential heterogeneous catalyst for CO_2 fixation to produce 2-oxazolidinones as well as benzimidazoles under moderate reaction conditions; Resmin Khatun, Surajit Biswas, Imdadul Haque Biswas, **Sk Riyajuddin**, Najirul Haque, Kaushik Ghosh, Sk Manirul Islam*; **Journal of CO_2 Utilization, 2020, 40, 101180.** (Q1)
35. Synthesis of Benzimidazolones and N-phenyl formamides by CO2 fixation Under Mild Reaction Conditions Using Polymer Supported Zinc Complex as Catalyst; Priyanka Basu, Tusar Kanto Dey, **Sk Riyajuddin**, Surajit Biswas, Kaushik Ghosh, Sk. Manirul Islam*; **New Journal of Chemistry, 2020, 44, 12680-12691.** (Q2)
36. Modified Graphene Oxide based Zinc composite: an efficient catalyst for N-formylation and carbamate formation reactions through CO_2 fixation; Resmin Khatun, Surajit Biswas, Md. Sarikul Islam, Imdadul Haque Biswas, **Sk Riyajuddin**, Kaushik Ghosh, Sk Manirul Islam***; ChemCatChem, 2019, 11, 1303-1312.** (Q1)
37. Zinc (II) incorporated porous organic polymeric material (POPs): A mild and efficient catalyst for synthesis of dicoumarols and carboxylative cyclization of propargyl alcohols and CO_2 in ambient conditions; Sk Safikul Islam, Noor Salam, Rostam Ali Molla, **Sk Riyajuddin**, Nasima Yasmin, Debasis Das, Kaushik Ghosh, Sk Manirul Islam*; **Molecular Catalysis, 2019, 477, 110541.** (Q2)
38. Zn (ii)@ TFP-DAQ COF: an efficient mesoporous catalyst for the synthesis of N-methylated amine and carbamate through chemical fixation of CO_2; Priyanka Sarkar, Arpita Hazra Chowdhury, **Sk Riyajuddin**, Surajit Biswas, Kaushik Ghosh, Sk Manirul Islam*; **New Journal of Chemistry, 2020, 44, 744-752.** (Q2)
39. Silver nanoparticles architectured HMP as a recyclable catalyst for tetramic acid and propiolic acid synthesis through CO_2 capture at atmospheric pressure; Swarbhanu Ghosh, Aniruddha Ghosh, **Sk Riyajuddin**, Somnath Sarkar, Arpita Hazra Chowdhury, Kaushik Ghosh*, Sk Manirul Islam*; **ChemCatChem, 2020, 12, 1055-1067.** (Q1)

40. Visible light assisted chemical fixation of atmospheric CO_2 into cyclic Carbonates using covalent organic framework as a potential photocatalyst; Anjan Das, Ranjan Das, Pekham Chakrabortty, **Sk Riyajuddin**, Arpita Hazra Chowdhury, Swarbhanu Ghosh, Aslam Khan, Kaushik Ghosh, Sk Manirul Islam*; **Molecular Catalysis, 2021, 499, 111253.** (Q2)
41. Synthesis and architecture of polystyrene-supported Schiff base-palladium complex: Catalytic features and functions in diaryl urea preparation in conjunction with Suzuki-Miyaura cross-coupling reaction by reductive carbonylation; Priyanka Basu, **Sk Riyajuddin**, Tusar Kanto Dey, Aniruddha Ghosh, Kaushik Ghosh*, Sk Manirul Islam*; **Journal of Organometallic Chemistry, 2018, 877, 37-50.** (Q3)
42. Polymer immobilized [Mg@PS-anthra] complex: An efficient recyclable heterogeneous catalyst for the incorporation of carbon dioxide into oxiranes at atmospheric pressure and Knoevenagel condensation reaction under solvent-free condition; Ranjan Kumar Mondal, **Sk Riyajuddin**, Aniruddha Ghosh, Swarbhanu Ghosh, Kaushik Ghosh*,Sk Manirul Islam*; **Journal of Organometallic Chemistry, 2019, 880, 322-332**. (Q3)
43. Effect of ionic size compensation by Ag+ incorporation in homogeneous Fe-substituted ZnO: studies on structural, mechanical, optical, and magnetic properties; Gaurav Bajpai, Tulika Srivastava, N. Patra, Igamcha Moirangthem, S. N. Jha, D. Bhattacharyya, **Sk Riyajuddin**, Kaushik Ghosh, Dharma R. Basaula, Mahmud Khan, Shun-Wei Liu, Sajal Biring* and Somaditya Sen*; **RSC Advance, 2018, 8, 29228-29229.** (Q2)
44. Role of Li^{+} and Fe^{3+} in modified ZnO: Structural, vibrational, opto-electronic, mechanical and magnetic properties; Gaurav Bajpai, Igamcha Moirangthem, Shuvam Sarkar, Sudipta Roy Barman, CP Vinod, Shubhra Bajpai, **Sk Riyajuddin**, Kaushik Ghosh, Dharma R Basaula, Mahmud Khan, Shun-Wei Liu, Sajal Biring*, Somaditya Sen*; **Ceramics International, 2019, 45,7232-7243.** (Q1)
45. Structural, opto-electronics and magnetic study of Fe/Si doped ZnO; Gaurav Bajpai, **Sk Riyajuddin**, Kaushik Ghosh, Shubhra Bajpai, Dharma R Basaula, Subhash Bhatt, Mahmud Khan, Shun-Wei Liu, Sajal Biring, Somaditya Sen*; **Journal of Materials Science: Materials in Electronics, 2019, 30, 9344-9355.** (Q2)
46. Structure, dielectric, and optical properties of $PbTi_{(1-x)}(V_{0.50}\,Fe_{0.50})_xO_3$ perovskite ceramics ; Arun Kumar Yadav, Anita Verma, Sunil Kumar, **Sk Riyajuddin**, Kaushik Ghosh, Sajal Biring, Somaditya Sen*; **Applied Physics A, 2019, 125, 418.** (Q2)
47. Polymer incarcerated Palladium catalyzed facile in situ carbonylation for the synthesis of aryl aldehydes and diaryl ketones using CO surrogates at ambient conditions; Tusar Kanto Dey, Priyanka Basu, **Sk Riyajuddin**, Aniruddha Ghosh, Kaushik Ghosh, SM Islam*; **New Journal of Chemistry, 2019, 43, 9802-9814.** (Q2)
48. Pd NPs decorated on POPs as recyclable catalysts for the synthesis of 2-oxazolidinones from propargylic amines via atmospheric cyclizative CO_2 incorporation; Swarbhanu Ghosh, **Sk Riyajuddin**, Somnath Sarkar, Kaushik Ghosh, Sk Manirul Islam*; **ChemNanoMat, 2020, 6, 160-172.** (Q1)
49. POP-Pd (II) catalyzed easy and safe in-situ carbonylation towards the synthesis of α-ketoamides from secondary cyclic amines utilizing $CHCl_3$ as the carbon monoxide surrogate; Safikul Islam, **Sk Riyajuddin**, Rostam Ali Molla, Nasima Yasmin, Kaushik Ghosh, Sk Manirul Islam*; **New Journal of Chemistry, 2020, 44, 1979-1987.** (Q2)
50. Exploring the Ce^{3+} ions doping effect on Optical and Magnetic Properties of NiO Nanostructures; M Naseem Siddique, Ateeq Ahmed, **Sk Riyajuddin**, Mohd Faizan, Kaushik Ghosh, P Tripathi*; **Journal of Magnetism and Magnetic Materials, 2019, 500, 166323.** (Q2)
51. Intrinsic Structural Distortion assisted Optical and Magnetic Properties of Orthorhombic rare-earth perovskite $La_{1-x}Eu_xCrO_3$: Effect of t-e hybridization; M. Naseem Siddique, Mohd Faizan*, **Sk Riyajuddin**, P Tripathi, Shabbir Ahmad, Kaushik Ghosh; **Journal of Alloys and Compounds, 2020, 850, 156748.** (Q1)
52. In-situ carbonylative synthesis of aromatic esters in assistance of polymer supported palladium catalyst; Tusar Kanto Dey, Priyanka Basu, **Sk Riyajuddin**, Surajit Biswas, Aslam Khan, Kaushik Ghosh, Sk Manirul Islam*; **Chemistry Select, 2020, 5, 10355-10366.** (Q2)

53. Tunable luminescence in $Ce^{3+/}$ Mn^{2+} co-doped ZrO_2 nanophosphor integrated with theoretical studies on possible $(ZrO_2)_n$ clusters using DFT method; Mohd Faizan*, M. Naseem Siddique, P Tripathi, Shabbir Ahmad, **Sk Riyajuddin**; **Journal of Alloys and Compounds, 2020, 853, 157378.** (Q1)

Book Chapter:

1. Large Area Graphene and Their Use as Flexible Touchscreens; Surender P. Gaur [#], **Sk Riyajuddin**[#], Sushil Kumar, Kaushik Ghosh*; Carbon Nanomaterial Electronics: Devices and Applications, **Springer, 2021, ISBN No-978-981-1610-51-6** (#-both authors have an equal contribution).

Paper in conference proceeding: 4

1. 3D-Ni-Foam/Graphene Heterostructure Decorated with Cu_3P composite: A Noble-Metal free Electrocatalyst for Hydrogen Evolution Reaction; **Sk Riyajuddin**, Kashif Azmi, Sushil Kumar, Firdaus Ali and Kaushik Ghosh* **AIP Conference Proceedings, 2020, 2265, 1, 030593. (IF-0.4) ISSN- 0094-243X, 1551-7616**

2. 3D-Ni-Foam/Graphene Heterostructure Decorated with g-C_3N_4 composite: A Noble-Metal free Electrocatalyst for Hydrogen Evolution Reaction; **Sk Riyajuddin**, Firdaus Ali, Sushil Kumar, Kashif Azmi and Kaushik Ghosh* **AIP Conference Proceedings, 2020, 2265, 1, 030598. (IF-0.4) ISSN-0094-243X, 1551-7616**

3. Low temperature growth of pyroelectric triglycine sulfate single crystal for passive infrared sensing; Surender P Gaur*, Sandhya, Sushil Kumar, **Sk Riyajuddin,** Sunny Kumar, Damini Badhwar, Kaushik Ghosh; **AIP Conference Proceedings, 2019, 2115, 1, 030400. (IF-0.4) ISSN-0094-243X, 1551-7616**

4. Influence of Rare Earth Ions on Microstructural and Optical Properties of ZnO Nanostructures; **Sk Riyajuddin***, Swaleha Naseem, Wasi Khan, Shabbir Ahmad, M.Faizan and A.H Naqvi; **AIP Conference Proceedings, 2016, 1731, 1, 050040. (IF-0.4) ISSN- 0094-243X, 1551-7616**