

Outstanding Paper Award for Young Scientists 2016

41st COSPAR Scientific Assembly Istanbul, Turkey, 30 July - 7 August 2016

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| COSPAR Scientific Commission A | <p>Maulik Jain (Denmark)</p> <p><i>Sea Surface Height Determination in the Arctic using Cryosat-2 SAR data from primary peak empirical retrackers</i></p> <p>ASR 55/1</p> |
| COSPAR Scientific Commission B | <p>Jian Chen (China)</p> <p><i>Abundance and distribution of radioelements in lunar terranes: Results of Chang'E-1 gamma ray spectrometer data</i></p> <p>ASR 57/3</p> |
| | <p>S.J. Zhang (China)</p> <p><i>Martian electron density profiles retrieved from Mars Express dual- frequency radio occultation measurements</i></p> <p>ASR 55/9</p> |
| | <p>Zhen Zhong (China)</p> <p><i>Lunar geophysical parameters inversion based on gravity/ topography admittance and particle swarm optimization</i></p> <p>ASR 54/4</p> |
| COSPAR Scientific Commission C | <p>Yun Cheng (China)</p> <p><i>In situ measurement of atomic oxygen flux using a silver film sensor onboard "TianTuo 1" nano-satellite</i></p> <p>ASR 57/1</p> |
| | <p>Maxim Klimenko (Russia)</p> <p><i>The global morphology of the plasmaspheric electron content during Northern winter 2009 based on GPS/COSMIC observation and GSM TIP model results</i></p> <p>ASR 55/8</p> |
| | <p>Alan Li (USA)</p> <p><i>Mean thermospheric density estimation derived from satellite constellations</i></p> <p>ASR 56/8</p> |

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| | <p>Shican Qiu (China)</p> <p><i>Temperature controlled icy dust reservoir of sodium: A possible mechanism for the formation of sporadic sodium layers</i></p> <p>ASR 55/11</p> <hr/> <p>Pothuraju Thirupathaiah (India)</p> <p><i>An updated model of atomic oxygen redline dayglow emission</i></p> <p>ASR 54/6</p> <hr/> <p>Jie Zhu (China)</p> <p><i>A new topside profiler based on Alouette/ISIS topside sounding</i></p> <p>ASR 56/10</p> |
| COSPAR Scientific Commission D | <p>Roelf Du Toit Strauss (South Africa)</p> <p><i>Where does the heliospheric modulation of galactic cosmic rays start?</i></p> <p>ASR 53/7</p> |
| COSPAR Scientific Commission E | <p>Tae Niita (Japan)</p> <p><i>A balloon experiment using CALET prototype (bCALET-2)</i></p> <p>ASR 55/2</p> <hr/> <p>Xichen Wang (China)</p> <p><i>Navigation strategy with the spacecraft communications blackout for Mars entry</i></p> <p>ASR 55/4</p> <hr/> <p>Shangbin Yang (China)</p> <p><i>Eruption of the magnetic flux rope in a quick decaying active region</i></p> <p>ASR 55/6</p> |

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| COSPAR Scientific Commission F | <p>Arif Ali Chishti (Germany)</p> <p><i>Constitutive expression of tdTomato protein as a cytotoxicity and proliferation marker for space radiation biology</i></p> <p>LSSR 4</p> |
| | <p>Mingyuan He (China)</p> <p><i>Differential effects of p53 on bystander phenotypes induced by gamma ray and high LET heavy ion radiation</i></p> <p>LSSR 1</p> |
| COSPAR Scientific Commission G | <p>Craig Pitcher (United Kingdom)</p> <p><i>Analysis of drill head designs for dual-reciprocating drilling technique in planetary regoliths</i></p> <p>ASR 56/8</p> |
| Technical Panel on Satellite Dynamics (PSD) | <p>Gerardo Allende Alba (Germany)</p> <p><i>Robust and precise baseline determination of distributed spacecraft in LEO</i></p> <p>ASR 57/1</p> |
| | <p>Alexandre Couhert (France)</p> <p><i>Towards the 1 mm/y stability of the radial orbit error at regional scales</i></p> <p>ASR 55/1</p> |
| | <p>Ann Dietrich (USA)</p> <p><i>Ascent trajectories from the lunar far-side to Earth–Moon L2 halo orbits</i></p> <p>ASR 56/11</p> |
| | <p>Xu Huang (China)</p> <p><i>Optimal spacecraft formation establishment and reconfiguration propelled by the geomagnetic Lorentz force</i></p> <p>ASR 54/11</p> |

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| | <p>Yanghe Shen (China)</p> <p><i>Solution to some limitations of frequency-entangled-based sensor applied in GRACE-like mission</i></p> <p>ASR 57/3</p> <hr/> <p>Dongke Wang (China)</p> <p><i>Coordinated control of tethered space robot using mobile tether attachment point in approaching phase</i></p> <p>ASR 54/6</p> <hr/> <p>Zhanji Wei (China)</p> <p><i>Modeling and analysis of a fly-wheel microvibration isolation system for spacecrafts</i></p> <p>ASR 55/2</p> <hr/> <p>Daniel R Wibben (USA)</p> <p><i>Optimal sliding guidance algorithm for Mars powered descent phase</i></p> <p>ASR 57/4</p> |
| Panel on Potentially Environmentally Detrimental Activities in Space (PEDAS) | <p>Natalia Ortiz Gómez (UK)</p> <p><i>Earth's gravity gradient and eddy currents effects on the rotational dynamics of space debris objects: Envisat case study</i></p> <p>ASR 56/3</p> <hr/> <p>Lin Hou-Yuan (China)</p> <p><i>Frequency analysis of the non-principal-axis rotation of uniaxial space debris in circular orbit subjected to gravity-gradient torque</i></p> <p>ASR 57/5</p> <hr/> <p>Aaron Jay Rosengren (USA)</p> <p><i>The classical Laplace plane as a stable disposal orbit for geo-stationary satellites</i></p> <p>ASR 53/8</p> |
| Panel on Planetary Protection (PPP) | <p>Toshihiro Chujo (Japan)</p> <p><i>Mars impact probability analysis for the Hayabusa-2 NEO sample return mission</i></p> <p>ASR 57/9</p> |