

Derrick M Mott

List of Publications by Year in descending order

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109
papers

5,923
citations

81839

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71651

76
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115
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115
docs citations

115
times ranked

8646
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Size Correlation of Optical and Spectroscopic Properties for Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14664-14669. | 1.5 | 533 |
| 2 | Synthesis of Size-Controlled and Shaped Copper Nanoparticles. <i>Langmuir</i> , 2007, 23, 5740-5745. | 1.6 | 455 |
| 3 | Characterization of Carbon-Supported AuPt Nanoparticles for Electrocatalytic Methanol Oxidation Reaction. <i>Langmuir</i> , 2006, 22, 2892-2898. | 1.6 | 266 |
| 4 | Phase Properties of Carbon-Supported Gold-Platinum Nanoparticles with Different Bimetallic Compositions. <i>Chemistry of Materials</i> , 2005, 17, 3086-3091. | 3.2 | 239 |
| 5 | Core/Shell Nanoparticles as Electrocatalysts for Fuel Cell Reactions. <i>Advanced Materials</i> , 2008, 20, 4342-4347. | 11.1 | 231 |
| 6 | Synergistic activity of gold-platinum alloy nanoparticle catalysts. <i>Catalysis Today</i> , 2007, 122, 378-385. | 2.2 | 221 |
| 7 | Nanoscale Alloying, Phase-Segregation, and Core-Shell Evolution of Gold-Platinum Nanoparticles and Their Electrocatalytic Effect on Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2010, 22, 4282-4294. | 3.2 | 205 |
| 8 | Core@shell nanomaterials: gold-coated magnetic oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2008, 18, 2629. | 6.7 | 187 |
| 9 | Nanoengineered PtCo and PtNi Catalysts for Oxygen Reduction Reaction: An Assessment of the Structural and Electrocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1682-1694. | 1.5 | 173 |
| 10 | Doxorubicin loaded dual pH- and thermo-responsive magnetic nanocarrier for combined magnetic hyperthermia and targeted controlled drug delivery applications. <i>Nanoscale</i> , 2016, 8, 12152-12161. | 2.8 | 173 |
| 11 | Interparticle Interactions in Glutathione Mediated Assembly of Gold Nanoparticles. <i>Langmuir</i> , 2008, 24, 8857-8863. | 1.6 | 146 |
| 12 | Fuel cell technology: nano-engineered multimetallic catalysts. <i>Energy and Environmental Science</i> , 2008, 1, 454. | 15.6 | 144 |
| 13 | Homocysteine-Mediated Reactivity and Assembly of Gold Nanoparticles. <i>Langmuir</i> , 2007, 23, 826-833. | 1.6 | 137 |
| 14 | Gold-platinum nanoparticles: alloying and phase segregation. <i>Journal of Materials Chemistry</i> , 2011, 21, 4012-4020. | 6.7 | 125 |
| 15 | Adsorption of Cyanine Dyes on Gold Nanoparticles and Formation of J-Aggregates in the Nanoparticle Assembly. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6673-6682. | 1.2 | 124 |
| 16 | Silver nanoparticle loaded TiO ₂ nanotubes with high photocatalytic and antibacterial activity synthesized by photoreduction method. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 352, 106-112. | 2.0 | 96 |
| 17 | Ternary alloy nanoparticles with controllable sizes and composition and electrocatalytic activity. <i>Journal of Materials Chemistry</i> , 2006, 16, 1665. | 6.7 | 95 |
| 18 | Thermal Treatment of PtNiCo Electrocatalysts: Effects of Nanoscale Strain and Structure on the Activity and Stability for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17580-17590. | 1.5 | 95 |

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|----|---|-----|-----------|
| 19 | Role of base in the formation of silver nanoparticles synthesized using sodium acrylate as a dual reducing and encapsulating agent. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9335. | 1.3 | 87 |
| 20 | Catalytic and Electrocatalytic Oxidation of Ethanol over Palladium-Based Nanoalloy Catalysts. <i>Langmuir</i> , 2013, 29, 9249-9258. | 1.6 | 87 |
| 21 | Chemical synthesis of blue-emitting metallic zinc nano-hexagons. <i>CrystEngComm</i> , 2013, 15, 6606. | 1.3 | 86 |
| 22 | Nanoparticle-structured sensing array materials and pattern recognition for VOC detection. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 431-441. | 4.0 | 85 |
| 23 | Gold-Copper Nanoparticles: Nanostructural Evolution and Bifunctional Catalytic Sites. <i>Chemistry of Materials</i> , 2012, 24, 4662-4674. | 3.2 | 85 |
| 24 | Interparticle Chiral Recognition of Enantiomers: A Nanoparticle-Based Regulation Strategy. <i>Analytical Chemistry</i> , 2009, 81, 689-698. | 3.2 | 82 |
| 25 | MicroRNA Conjugated Gold Nanoparticles and Cell Transfection. <i>Analytical Chemistry</i> , 2012, 84, 26-29. | 3.2 | 78 |
| 26 | Gold and magnetic oxide/gold core/shell nanoparticles as bio-functional nanoprobcs. <i>Nanotechnology</i> , 2008, 19, 305102. | 1.3 | 77 |
| 27 | From Ultrafine Thiolate-Capped Copper Nanoclusters toward Copper Sulfide Nanodiscs: A Thermally Activated Evolution Route. <i>Chemistry of Materials</i> , 2010, 22, 261-271. | 3.2 | 77 |
| 28 | Synthesis and Characterization of Monolayer-Capped PtVFe Nanoparticles with Controllable Sizes and Composition. <i>Chemistry of Materials</i> , 2005, 17, 5282-5290. | 3.2 | 76 |
| 29 | Nanocrystal and surface alloy properties of bimetallic Gold-Platinum nanoparticles. <i>Nanoscale Research Letters</i> , 2007, 2, 12-16. | 3.1 | 76 |
| 30 | Synthesis and surface functionalization of Fe ₃ O ₄ -SiO ₂ core-shell nanoparticles with 3-glycidioxypropyltrimethoxysilane and 1,2,4-triazole for bio-applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 504, 376-383. | 2.3 | 75 |
| 31 | X-ray Absorption Near-Edge Structure and X-ray Photoelectron Spectroscopy Studies of Interfacial Charge Transfer in Gold-Silver-Gold Double-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4511-4516. | 1.5 | 69 |
| 32 | Electronic transfer as a route to increase the chemical stability in gold and silver core-shell nanoparticles. <i>Advances in Colloid and Interface Science</i> , 2012, 185-186, 14-33. | 7.0 | 55 |
| 33 | Chemical stabilization of gold coated by silver core-shell nanoparticles via electron transfer. <i>Nanotechnology</i> , 2012, 23, 245704. | 1.3 | 55 |
| 34 | Catalytic activity of bimetallic catalysts highly sensitive to the atomic composition and phase structure at the nanoscale. <i>Nanoscale</i> , 2015, 7, 18936-18948. | 2.8 | 53 |
| 35 | Charge-transfer-induced suppression of galvanic replacement and synthesis of (Au@Ag)@Au double shell nanoparticles for highly uniform, robust and sensitive bioprobes. <i>Applied Physics Letters</i> , 2011, 99, 073107. | 1.5 | 50 |
| 36 | Aqueous synthesis and characterization of Ag and Ag-Au nanoparticles: addressing challenges in size, monodispersity and structure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4275-4292. | 1.6 | 49 |

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|----|--|-----|-----------|
| 37 | Chromium-assisted synthesis of platinum nanocube electrocatalysts. <i>Chemical Communications</i> , 2010, 46, 7184. | 2.2 | 46 |
| 38 | Nanostructured PtVFe catalysts: Electrocatalytic performance in proton exchange membrane fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 1139-1141. | 2.3 | 40 |
| 39 | Nanoscale alloying effect of gold-platinum nanoparticles as cathode catalysts on the performance of a rechargeable lithium-oxygen battery. <i>Nanotechnology</i> , 2012, 23, 305404. | 1.3 | 40 |
| 40 | Sensing Arrays Constructed from Nanoparticle Thin Films and Interdigitated Microelectrodes. <i>Sensors</i> , 2006, 6, 667-679. | 2.1 | 32 |
| 41 | Ag/FeCo/Ag Core/Shell/Shell Magnetic Nanoparticles with Plasmonic Imaging Capability. <i>Langmuir</i> , 2015, 31, 2228-2236. | 1.6 | 31 |
| 42 | Preparation of PdCu Alloy Nanocatalysts for Nitrate Hydrogenation and Carbon Monoxide Oxidation. <i>Catalysts</i> , 2016, 6, 96. | 1.6 | 31 |
| 43 | Assembly of Gold Nanoparticles Mediated by Multifunctional Fullerenes. <i>Langmuir</i> , 2007, 23, 10715-10724. | 1.6 | 30 |
| 44 | Synthesis, Characterization and Potential Application of MnZn Ferrite and MnZn Ferrite@Au Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3005-3012. | 0.9 | 29 |
| 45 | In situ real-time x-ray diffraction study of phase segregation in Au-Pt nanoparticles. <i>Nanotechnology</i> , 2009, 20, 245708. | 1.3 | 28 |
| 46 | Intensification of surface enhanced Raman scattering of thiol-containing molecules using Ag@Au core@shell nanoparticles. <i>Journal of Applied Physics</i> , 2011, 109, . | 1.1 | 28 |
| 47 | High-performance nonvolatile write-once-read-many-times memory devices with ZnO nanoparticles embedded in polymethylmethacrylate. <i>Applied Physics Letters</i> , 2011, 99, . | 1.5 | 28 |
| 48 | One-pot synthesis and characterization of well defined core-shell structure of FePt@CdSe nanoparticles. <i>RSC Advances</i> , 2011, 1, 100. | 1.7 | 27 |
| 49 | Oxophilicity and Structural Integrity in Maneuvering Surface Oxygenated Species on Nanoalloys for CO Oxidation. <i>ACS Catalysis</i> , 2013, 3, 3075-3085. | 5.5 | 27 |
| 50 | Bifunctional nanoparticles for SERS monitoring and magnetic intervention of assembly and enzyme cutting of DNAs. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4320. | 2.9 | 27 |
| 51 | Rigid, conjugated and shaped arylethyne as mediators for the assembly of gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 1890-1901. | 6.7 | 25 |
| 52 | Surface oxygenation of multicomponent nanoparticles toward active and stable oxidation catalysts. <i>Nature Communications</i> , 2020, 11, 4201. | 5.8 | 25 |
| 53 | Comparative trial of saccharin-added electrolyte for improving the structure of an electrodeposited magnetic FeCoNi thin film. <i>Thin Solid Films</i> , 2017, 642, 51-57. | 0.8 | 24 |
| 54 | Boehmite nanorod/gold nanoparticle nanocomposite film for an easy-to-use optical humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 429-435. | 4.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Enhanced Electronic Properties of Pt@Ag Heterostructured Nanoparticles. <i>Sensors</i> , 2013, 13, 7813-7826. | 2.1 | 23 |
| 56 | Synthesis of delafossite CuAlO ₂ p-type semiconductor with a nanoparticle-based Cu(I) acetate-loaded boehmite precursor. <i>Materials Research Bulletin</i> , 2011, 46, 1819-1827. | 2.7 | 22 |
| 57 | Magnetic Plasmonic FePt@Ag Core-Shell Nanoparticles and Their Magnetic and SERS Properties. <i>Plasmonics</i> , 2013, 8, 1177-1184. | 1.8 | 22 |
| 58 | Formation mechanism of magnetic plasmonic Ag@FeCo@Ag core-shell-shell nanoparticles: fact is more interesting than fiction. <i>CrystEngComm</i> , 2015, 17, 6923-6929. | 1.3 | 22 |
| 59 | Multicore magnetic FePt nanoparticles: controlled formation and properties. <i>RSC Advances</i> , 2014, 4, 1039-1044. | 1.7 | 20 |
| 60 | Bismuth, antimony and tellurium alloy nanoparticles with controllable shape and composition for efficient thermoelectric devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 52-58. | 0.8 | 19 |
| 61 | Copper Sulfide-Zinc Sulfide Janus Nanoparticles and Their Seebeck Characteristics for Sustainable Thermoelectric Materials. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5869-5875. | 1.5 | 19 |
| 62 | Exchange bias in Ag/FeCo/Ag core/shell/shell nanoparticles due to partial oxidation of FeCo intermediate shell. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 339-344. | 1.0 | 17 |
| 63 | Sustainable thermoelectric materials fabricated by using Cu ₂ Sn _{1-x} Zn _x S ₃ nanoparticles as building blocks. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 16 |
| 64 | Molecularly-mediated assembly of gold nanoparticles with interparticle rigid, conjugated and shaped aryl ethynyl structures. <i>Chemical Communications</i> , 2010, 46, 2218. | 2.2 | 15 |
| 65 | Study on formation mechanism and ligand-directed architectural control of nanoparticles composed of Bi, Sb and Te: towards one-pot synthesis of ternary (Bi,Sb) ₂ Te ₃ nanobuilding blocks. <i>RSC Advances</i> , 2011, 1, 1089. | 1.7 | 14 |
| 66 | AuFePt Ternary Homogeneous Alloy Nanoparticles with Magnetic and Plasmonic Properties. <i>Langmuir</i> , 2017, 33, 1687-1694. | 1.6 | 14 |
| 67 | A Study on the Plasmonic Properties of Silver Core Gold Shell Nanoparticles: Optical Assessment of the Particle Structure. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 065004. | 0.8 | 13 |
| 68 | Novel nickel-palladium catalysts encased in a platinum nanocage. <i>RSC Advances</i> , 2014, 4, 26667-26672. | 1.7 | 13 |
| 69 | Enhancement of the Thermoelectric Figure of Merit in Blended Cu ₂ Sn _{1-x} Zn _x S ₃ Nanobulk Materials. <i>ACS Applied Nano Materials</i> , 2018, 1, 4819-4827. | 2.4 | 13 |
| 70 | Peak shape analysis of Ag 3d core-level X-ray photoelectron spectra of Au@Ag core-shell nanoparticles using an asymmetric Gaussian-Lorentzian mixed function. <i>Surface and Interface Analysis</i> , 2012, 44, 1611-1614. | 0.8 | 12 |
| 71 | Catalytic oxidation of propane over palladium alloyed with gold: an assessment of the chemical and intermediate species. <i>Catalysis Science and Technology</i> , 2018, 8, 6228-6240. | 2.1 | 12 |
| 72 | Colloid Chemical Approach for Fabricating Cu-Fe-S Nanobulk Thermoelectric Materials by Blending Cu ₂ S and FeS Nanoparticles as Building Blocks. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3688-3697. | 1.8 | 12 |

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|----|--|-----|-----------|
| 73 | Low-temperature phase and morphology transformations in noble metal nanocatalysts. Nanotechnology, 2011, 22, 025701. | 1.3 | 11 |
| 74 | Ultrafast Exciton Dynamics in Cd x Hg (1 - x) Te alloy Quantum Dots. Chemical Physics, 2016, 469-470, 25-30. | 0.9 | 10 |
| 75 | Gold-Based Nanoparticle Catalysts for Fuel Cell Reactions. , 2007, , 289-307. | | 9 |
| 76 | Elucidation of the Complex Structure of Nanoparticles Composed of Bismuth, Antimony, and Tellurium Using Scanning Transmission Electron Microscopy. Journal of Physical Chemistry C, 2011, 115, 17334-17340. | 1.5 | 9 |
| 77 | Chalcopyrite nanocomposite material for sustainable thermoelectrics. Japanese Journal of Applied Physics, 2014, 53, 120301. | 0.8 | 9 |
| 78 | Organic nanocrystal enrichment in paper microfluidic analysis. Sensors and Actuators B: Chemical, 2021, 333, 129548. | 4.0 | 9 |
| 79 | Chalcopyrite Nanoparticles as a Sustainable Thermoelectric Material. Nanomaterials, 2015, 5, 1820-1830. | 1.9 | 8 |
| 80 | One-pot Chemical Synthesis of Zinc Antimonide Nanoparticles as Building Blocks for Nanostructured Thermoelectric Materials. Chemistry Letters, 2012, 41, 1529-1531. | 0.7 | 7 |
| 81 | Size Determination of Nanoparticles Based on Tapping-Mode Atomic Force Microscopy Measurements. Journal of Scanning Probe Microscopy, 2008, 3, 1-8. | 0.0 | 7 |
| 82 | A Study on the Plasmonic Properties of Silver Core Gold Shell Nanoparticles: Optical Assessment of the Particle Structure. Japanese Journal of Applied Physics, 2011, 50, 065004. | 0.8 | 6 |
| 83 | Combinatorial Assessment of the Activity-Composition Correlation for Several Alloy Nanoparticle Catalysts. Industrial & Engineering Chemistry Research, 2008, 47, 4675-4682. | 1.8 | 5 |
| 84 | Gold/Wüstite Core-shell Nanoparticles: Suppression of Iron Oxidation through the Electron-Transfer Phenomenon. ChemPhysChem, 2013, 14, 3278-3283. | 1.0 | 5 |
| 85 | Attenuation of surface-enhanced Raman scattering of magnetic plasmonic FePt@Ag core-shell nanoparticles due to an external magnetic field. Chemical Physics Letters, 2013, 574, 94-99. | 1.2 | 5 |
| 86 | An influence of bottom electrode material on electrical conduction and resistance switching of TiO _x thin films. EPJ Applied Physics, 2013, 64, 30102. | 0.3 | 5 |
| 87 | Quantitative two-dimensional strain mapping of small core-shell FePt@Fe ₃ O ₄ nanoparticles. New Journal of Physics, 2016, 18, 033016. | 1.2 | 5 |
| 88 | Evolution of surface catalytic sites on thermochemically-tuned gold-palladium nanoalloys. Nanoscale, 2018, 10, 3849-3862. | 2.8 | 5 |
| 89 | Synthesis and Characterization of Copper Sulfide-Manganese Sulfide Nanoparticles with Chestnut Morphology and Study on the Semiconducting Properties. ChemistrySelect, 2019, 4, 3898-3904. | 0.7 | 4 |
| 90 | Wet-chemical preparation of digold bismuthide, gold diantimonide, and gold ditelluride particles. Journal of Materials Research, 2013, 28, 2106-2112. | 1.2 | 3 |

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|-----|---|-----|-----------|
| 91 | Transition of exchange bias from the linear to oscillatory regime with the progression of surface oxidation of Ag@FeCo@Ag core@shell@shell nanoparticles. Journal of Applied Physics, 2016, 120, 134301. | 1.1 | 3 |
| 92 | Characterization of the detector subsystem for the near-infrared spectrograph (NIRSpec) on the James Webb Space Telescope. Proceedings of SPIE, 2008, , . | 0.8 | 2 |
| 93 | Chemical Synthesis of Binary Solid Solution Bismuth-Antimony Nanoparticles with Control of Composition and Morphology. Chemistry Letters, 2014, 43, 615-617. | 0.7 | 2 |
| 94 | Characterization of Metallic Nanoparticles Based on the Abundant Usages of X-ray Techniques. , 2015, , 1-24. | | 2 |
| 95 | FePt Nanoparticles as Promising Magnetic Nanobeads for Biomedical Applications. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, S104-S110. | 0.1 | 1 |
| 96 | Nanoparticle Building Blocks as a Foundation for Advanced Thermoelectric Energy Generators. ACS Symposium Series, 2015, , 41-54. | 0.5 | 1 |
| 97 | Harvesting Nanocatalytic Heat Localized in Nanoalloy Catalyst as a Heat Source in a Nanocomposite Thin Film Thermoelectric Device. Langmuir, 2015, 31, 11158-11163. | 1.6 | 1 |
| 98 | Silica-Supported Au and Pt Nanoparticles and CO Adsorption. Materials Research Society Symposia Proceedings, 2005, 900, 1. | 0.1 | 0 |
| 99 | Synthesis of Size and Shape Controlled Silver Nanoparticles Coated by a Thin Layer of Gold and Their Use as Ultrasensitive Biomolecular Probes. Materials Research Society Symposia Proceedings, 2010, 1253, 4. | 0.1 | 0 |
| 100 | Assembly of Ag@Au Nanoparticles Using Complementary Stranded DNA Molecules and Their Detection Using UV-Vis and RAMAN Spectroscopic Techniques. Materials Research Society Symposia Proceedings, 2010, 1272, 1. | 0.1 | 0 |
| 101 | Design and Synthesis of One and Two Dimensional Thermoelectric Nanomaterials Composed of Bismuth, Antimony, and Tellurium. Materials Research Society Symposia Proceedings, 2010, 1267, 1. | 0.1 | 0 |
| 102 | Synthesis, Fabrication, and Characterization of Multidimensional Nanoparticle Based Thermoelectric Materials Composed of Bismuth, Antimony, and Tellurium.. Materials Research Society Symposia Proceedings, 2011, 1329, 1. | 0.1 | 0 |
| 103 | Back Cover: Bismuth, antimony and tellurium alloy nanoparticles with controllable shape and composition for efficient thermoelectric devices (Phys. Status Solidi A 1/2011). Physica Status Solidi (A) Applications and Materials Science, 2011, 208, . | 0.8 | 0 |
| 104 | True Atomic Level Imaging of Shaped Nanoparticles Composed of Bismuth, Antimony and Tellurium using Scanning Transmission Electron Microscopy.. Materials Research Society Symposia Proceedings, 2011, 1349, 140201. | 0.1 | 0 |
| 105 | Manipulation of the Electronic Properties of Gold and Silver Core-Shell Nanoparticles. ACS Symposium Series, 2012, , 327-358. | 0.5 | 0 |
| 106 | Plasmonic-magnetic dual-functional graded nanoparticles with oxide shell passivation designed for bioapplications. Applied Physics Express, 2018, 11, 105001. | 1.1 | 0 |
| 107 | Characterization of Metallic Nanoparticles Based on the Abundant Usages of X-ray Techniques. , 2016, , 217-244. | | 0 |
| 108 | Organic Nanocrystal Coated-Microfluidic Paper Analytical Device for Heavy Metal Ions Detection. ECS Meeting Abstracts, 2020, MA2020-01, 2334-2334. | 0.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Influence of Naturally Occurring Organic Surfactants on the Surface Tension of Sessile Droplets and Atmospheric Aerosols Measured with a Quasi-Elastic Laser Scattering System. ECS Meeting Abstracts, 2020, MA2020-01, 2272-2272. | 0.0 | 0 |