

Regina Ragan

List of Publications by Year in descending order

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74
papers

1,327
citations

304743

22
h-index

395702

33
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74
all docs

74
docs citations

74
times ranked

1976
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Influence of Magnetic Moment on Single Atom Catalytic Activation Energy Barriers. <i>Catalysis Letters</i> , 2022, 152, 1347-1357. | 2.6 | 6 |
| 2 | Electrically Fueled Active Supramolecular Materials. <i>Journal of the American Chemical Society</i> , 2022, 144, 7844-7851. | 13.7 | 30 |
| 3 | Mapping Molecular Adsorption Configurations with $\approx 5\text{ nm}$ Spatial Resolution through Ambient Tip-Enhanced Raman Imaging. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3586-3590. | 4.6 | 10 |
| 4 | Deep Learning Analysis of Vibrational Spectra of Bacterial Lysate for Rapid Antimicrobial Susceptibility Testing. <i>ACS Nano</i> , 2020, 14, 15336-15348. | 14.6 | 75 |
| 5 | Fabrication of patterned graphitized carbon wires using low voltage near-field electrospinning, pyrolysis, electrodeposition, and chemical vapor deposition. <i>Microsystems and Nanoengineering</i> , 2020, 6, 7. | 7.0 | 24 |
| 6 | Surface-Enhanced Raman Scattering-Based Odor Compass: Locating Multiple Chemical Sources and Pathogens. <i>ACS Sensors</i> , 2019, 4, 2311-2319. | 7.8 | 32 |
| 7 | Quantification of Analyte Concentration in the Single Molecule Regime Using Convolutional Neural Networks. <i>Analytical Chemistry</i> , 2019, 91, 13337-13342. | 6.5 | 49 |
| 8 | Two-Scale Structure for Giant Field Enhancement: Combination of Rayleigh Anomaly and Colloidal Plasmonic Resonance. <i>Physical Review Applied</i> , 2019, 11, . | 3.8 | 3 |
| 9 | Scalable synthesis of gyroid-inspired freestanding three-dimensional graphene architectures. <i>Nanoscale Advances</i> , 2019, 1, 3870-3882. | 4.6 | 17 |
| 10 | Improved regressions with convolutional neural networks for surface enhanced Raman scattering sensing of metabolite biomarkers. , 2019, , . | | 2 |
| 11 | Revealing the molecular structure of soot precursors. <i>Carbon</i> , 2018, 129, 537-542. | 10.3 | 21 |
| 12 | Longitudinal Monitoring of Biofilm Formation via Robust Surface-Enhanced Raman Scattering Quantification of <i>Pseudomonas aeruginosa</i> -Produced Metabolites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12364-12373. | 8.0 | 51 |
| 13 | Stress-activated pyrolytic carbon nanofibers for electrochemical platforms. <i>Electrochimica Acta</i> , 2018, 290, 639-648. | 5.2 | 11 |
| 14 | Evaluating the Stability of Single-Atom Catalysts with High Chemical Activity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21919-21926. | 3.1 | 20 |
| 15 | Electric Field Enhancement by Two-scale Structure. , 2018, , . | | 0 |
| 16 | Large Continuous Mechanical Gradient Formation via Metal-Ligand Interactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15575-15579. | 13.8 | 43 |
| 17 | Large Continuous Mechanical Gradient Formation via Metal-Ligand Interactions. <i>Angewandte Chemie</i> , 2017, 129, 15781-15785. | 2.0 | 11 |
| 18 | Driving Chemical Reactions in Plasmonic Nanogaps with Electrohydrodynamic Flow. <i>ACS Nano</i> , 2017, 11, 11317-11329. | 14.6 | 25 |

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|----|---|-----|-----------|
| 19 | Robust SERS spectral analysis for quantitative detection of pyocyanin in biological fluids. , 2017, , . | | 2 |
| 20 | Templated electrokinetic directed chemical assembly for the fabrication of close-packed plasmonic metamolecules. , 2017, , . | | 1 |
| 21 | Electric field enhancement with plasmonic colloidal nanoantennas excited by a silicon nitride waveguide. Optics Express, 2016, 24, 28337. | 3.4 | 20 |
| 22 | Plasmon optical trapping using silicon nitride trench waveguides. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1182. | 2.1 | 8 |
| 23 | Tunable optical response of bowtie nanoantenna arrays on thermoplastic substrates. Nanotechnology, 2016, 27, 105302. | 2.6 | 17 |
| 24 | Surface Electronic Structure. , 2016, , 3896-3907. | | 0 |
| 25 | Highly nonlinear sub-micron silicon nitride trench waveguide coated with gold nanoparticles. , 2015, , . | | 3 |
| 26 | Mixing-sequence-dependent nucleic acid complexation and gene transfer efficiency by polyethylenimine. Biomaterials Science, 2015, 3, 1124-1133. | 5.4 | 29 |
| 27 | Surface enhanced Raman scattering for detection of Pseudomonas aeruginosa quorum sensing compounds. , 2015, , . | | 3 |
| 28 | Evaluation of Young's Modulus of Tethered 1-Palmitoyl-2-oleoyl- <i>sn</i> -glycero-3-phosphocholine Membranes Using Atomic Force Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 29301-29309. | 3.1 | 11 |
| 29 | Enhanced Magnetic and Electric Fields via Fano Resonances in Metasurfaces of Circular Clusters of Plasmonic Nanoparticles. ACS Photonics, 2014, 1, 254-260. | 6.6 | 73 |
| 30 | Nanoscale architecture and cellular adhesion of biomimetic collagen substrates. Journal of Biomaterials Applications, 2014, 28, 1354-1365. | 2.4 | 8 |
| 31 | Tunable nano bead arrays on film for controlling propagation of light. Proceedings of SPIE, 2013, , . | 0.8 | 2 |
| 32 | Generic Process for Highly Stable Metallic Nanoparticle-Semiconductor Heterostructures via Click Chemistry for Electro/Photocatalytic Applications. ACS Applied Materials & Interfaces, 2013, 5, 9554-9562. | 8.0 | 42 |
| 33 | Shrink-induced sorting using integrated nanoscale magnetic traps. Applied Physics Letters, 2013, 102, 063504. | 3.3 | 23 |
| 34 | Directing Cluster Formation of Au Nanoparticles from Colloidal Solution. Langmuir, 2013, 29, 4242-4251. | 3.5 | 22 |
| 35 | Interpreting Kelvin probe force microscopy under an applied electric field: local electronic behavior of vapor-liquid-solid Si nanowires. Nanotechnology, 2013, 24, 205704. | 2.6 | 5 |
| 36 | Fano resonances in metasurfaces made of linear trimers of plasmonic nanoparticles. Optics Letters, 2013, 38, 5216. | 3.3 | 18 |

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|----|---|------|-----------|
| 37 | Comparison of electric field enhancements: Linear and triangular oligomers versus hexagonal arrays of plasmonic nanospheres. <i>Optics Express</i> , 2013, 21, 7957. | 3.4 | 25 |
| 38 | Characterizing defects and transport in Si nanowire devices using Kelvin probe force microscopy. <i>Nanotechnology</i> , 2012, 23, 405706. | 2.6 | 10 |
| 39 | Non-lithographic SERS Substrates: Tailoring Surface Chemistry for Au Nanoparticle Cluster Assembly. <i>Small</i> , 2012, 8, 2239-2249. | 10.0 | 68 |
| 40 | Elucidating Driving Forces for Liposome Rupture: External Perturbations and Chemical Affinity. <i>Langmuir</i> , 2012, 28, 7417-7427. | 3.5 | 6 |
| 41 | Structural and Chemical Properties of Gold Rare Earth Disilicide Core-shell Nanowires. <i>ACS Nano</i> , 2011, 5, 477-485. | 14.6 | 4 |
| 42 | Dynamics of nucleic acid/cationic polymer complexation and disassembly under biologically simulated conditions using in situ atomic force microscopy. <i>Microscopy Research and Technique</i> , 2010, 73, 845-856. | 2.2 | 29 |
| 43 | Thermodynamic driving forces governing assembly of disilicide nanowires. <i>Surface Science</i> , 2010, 604, 1481-1486. | 1.9 | 8 |
| 44 | A Facile Approach for Assembling Lipid Bilayer Membranes on Template-Stripped Gold. <i>Langmuir</i> , 2010, 26, 18239-18245. | 3.5 | 17 |
| 45 | Morphological work function dependence of rare-earth disilicide metal nanostructures. <i>Nanotechnology</i> , 2009, 20, 035701. | 2.6 | 8 |
| 46 | Determination of preferential rare earth adatom adsorption geometries on Si(001). <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3459-3463. | 2.1 | 4 |
| 47 | First principles studies of adsorption of Pd, Ag, Pt, and Au on yttrium disilicide nanowires. <i>Chemical Physics Letters</i> , 2008, 454, 327-331. | 2.6 | 3 |
| 48 | An atomistic view of structural and electronic properties of rare earth ensembles on Si(001) substrates. <i>Chemical Physics Letters</i> , 2008, 466, 159-164. | 2.6 | 8 |
| 49 | Structural Understanding of Self-Assembled Rare Earth Disilicide Nanostructures Via Scanning Probe Microscopy and First Principles Studies. <i>Israel Journal of Chemistry</i> , 2008, 48, 73-79. | 2.3 | 3 |
| 50 | Scanning Tunneling Microscopy of Template-Stripped Au Surfaces and Highly Ordered Self-Assembled Monolayers. <i>Langmuir</i> , 2008, 24, 5984-5987. | 3.5 | 17 |
| 51 | Structure and electronic properties of self-assembled Pt silicide nanowires on Si(100). <i>Nanotechnology</i> , 2007, 18, 095706. | 2.6 | 18 |
| 52 | Self-Assembled Monolayers on Pt(111): Molecular Packing Structure and Strain Effects Observed by Scanning Tunneling Microscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 5745-5750. | 13.7 | 26 |
| 53 | Regular Arrays of Monodisperse Platinum/Erbium Disilicide Core-shell Nanowires and Nanoparticles on Si(001) via a Self-Assembled Template. <i>Nano Letters</i> , 2006, 6, 1858-1862. | 9.1 | 18 |
| 54 | Thermal expansion coefficients of rare earth metal disilicides and their influence on the growth of disilicide nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 39-42. | 2.3 | 3 |

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|----|---|-----|-----------|
| 55 | Noble metal nanoparticle arrays: control of size, shape, and placement via chemical self-assembly. , 2006, 6370, 154. | | 0 |
| 56 | Kinetics governing phase separation of nanostructured $\text{Sn}_x\text{Ge}_{1-x}$ alloys. Physical Review B, 2006, 73, . | 3.2 | 9 |
| 57 | Surface Reconstruction of Pt/Si(001). Applied Physics A: Materials Science and Processing, 2005, 80, 1301-1304. | 2.3 | 4 |
| 58 | Unidirectional hexagonal rare-earth disilicide nanowires on vicinal Si(100)- $2\sqrt{3}\times 1$. Applied Physics A: Materials Science and Processing, 2005, 80, 1311-1313. | 2.3 | 16 |
| 59 | Optimization of in-vacuo template-stripped Pt surfaces via UHV STM. Applied Physics A: Materials Science and Processing, 2005, 80, 1327-1334. | 2.3 | 6 |
| 60 | Platinum passivation of self-assembled erbium disilicide nanowire arrays on Si(001). Applied Physics A: Materials Science and Processing, 2005, 80, 1339-1342. | 2.3 | 11 |
| 61 | Diamond cubic Sn-rich nanocrystals: synthesis, microstructure and optical properties. Applied Physics A: Materials Science and Processing, 2005, 80, 1335-1338. | 2.3 | 15 |
| 62 | Phase stabilities of ternary rare earth metal disilicides. Applied Physics A: Materials Science and Processing, 2004, 78, 1-3. | 2.3 | 3 |
| 63 | Vacancy concentrations in binary rare-earth disilicides with the aluminum diboride structure. Applied Physics A: Materials Science and Processing, 2004, 78, 287-289. | 2.3 | 6 |
| 64 | Atomic Surface Structure of UHV-Prepared Template-Stripped Platinum and Single-Crystal Platinum(111). Journal of Physical Chemistry B, 2004, 108, 20187-20192. | 2.6 | 19 |
| 65 | Platinum and gold nanostructures on silicon via a self-assembled template. , 2004, 5593, 167. | | 3 |
| 66 | Ordered arrays of rare-earth silicide nanowires on Si(001). Journal of Crystal Growth, 2003, 251, 657-661. | 1.5 | 50 |
| 67 | Void-mediated formation of Sn quantum dots in a Si matrix. Applied Physics Letters, 2003, 82, 4262-4264. | 3.3 | 27 |
| 68 | Nonlithographic epitaxial $\text{Sn}_x\text{Ge}_{1-x}$ dense nanowire arrays grown on Ge(001). Applied Physics Letters, 2003, 82, 3439-3441. | 3.3 | 23 |
| 69 | Structural Transformations in self-assembled Semiconductor Quantum Dots as inferred by Transmission Electron Microscopy. , 2002, 4807, 71. | | 8 |
| 70 | Direct energy gap group IV semiconductor alloys and quantum dot arrays in $\text{Sn}_x\text{Ge}_{1-x}/\text{Ge}$ and $\text{Sn}_x\text{Si}_{1-x}/\text{Si}$ alloy systems. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 87, 204-213. | 3.5 | 46 |
| 71 | Measurement of the direct energy gap of coherently strained $\text{Sn}_x\text{Ge}_{1-x}/\text{Ge}(001)$ heterostructures. Applied Physics Letters, 2000, 77, 3418-3420. | 3.3 | 73 |
| 72 | Absorption enhancement in ultra-thin textured AlGaAs films. Solar Energy Materials and Solar Cells, 1999, 57, 1-7. | 6.2 | 10 |

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| 73 | Formation of Direct Energy Gap Group IV Semiconductor Alloys and Quantum Dot Arrays in $\text{Sn}_x\text{Si}_{1-x}/\text{Si}$ and $\text{Sn}_x\text{Ge}_{1-x}/\text{Ge}$ Alloy Systems. Materials Research Society Symposia Proceedings, 1999, 583, 349. | 0.1 | 1 |
| 74 | Optical Properties of Pseudomorphic $\text{Sn}_x\text{Ge}_{1-x}$ Alloys. Materials Research Society Symposia Proceedings, 1999, 588, 199. | 0.1 | 5 |