# Robert J Hamers

List of Publications by Year
in descending order



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|---|---|---|---|
| 361 papers | 28,408 citations | 3919 88 h-index | 7136 153 g-index |
| 373 all docs | 373 docs citations | 373 times ranked | 26625 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Surface Electronic Structure of Si (111)-(7Ã—7) Resolved in Real Space. Physical Review Letters, 1986, 56, 1972-1975. | 2.9 | 1,116 |
| 2 | Photo-illuminated diamond as a solid-state sourceÂof solvated electrons in water for nitrogenÂreduction. Nature Materials, 2013, 12, 836-841. | 13.3 | 834 |
| 3 | Scanning tunneling microscopy of Si(001). Physical Review B, 1986, 34, 5343-5357. | 1.1 | 824 |
| 4 | DNA-modified nanocrystalline diamond thin-films as stable, biologically active substrates. Nature Materials, 2002, 1, 253-257. | 13.3 | 802 |
| 5 | Highly active hydrogen evolution catalysis from metallic WS<sub>2</sub> nanosheets. Energy and Environmental Science, 2014, 7, 2608-2613. | 15.6 | 660 |
| 6 | Si(001) Dimer Structure Observed with Scanning Tunneling Microscopy. Physical Review Letters, 1985, 55, 1303-1306. | 2.9 | 636 |
| 7 | Highly Active Trimetallic NiFeCr Layered Double Hydroxide Electrocatalysts for Oxygen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1703189. | 10.2 | 509 |
| 8 | Synthesis and Characterization of DNA-Modified Silicon (111) Surfaces. Journal of the American Chemical Society, 2000, 122, 1205-1209. | 6.6 | 432 |
| 9 | Cycloaddition Chemistry of Organic Molecules with Semiconductor Surfaces. Accounts of Chemical Research, 2000, 33, 617-624. | 7.6 | 408 |
| 10 | Efficient Photoelectrochemical Hydrogen Generation Using Heterostructures of Si and Chemically Exfoliated Metallic MoS<sub>2</sub>. Journal of the American Chemical Society, 2014, 136, 8504-8507. | 6.6 | 379 |
| 11 | Color-Pure Violet-Light-Emitting Diodes Based on Layered Lead Halide Perovskite Nanoplates. ACS Nano, 2016, 10, 6897-6904. | 7.3 | 378 |
| 12 | Solution Growth of Single Crystal Methylammonium Lead Halide Perovskite Nanostructures for Optoelectronic and Photovoltaic Applications. Journal of the American Chemical Society, 2015, 137, 5810-5818. | 6.6 | 368 |
| 13 | Covalently Bonded Adducts of Deoxyribonucleic Acid (DNA) Oligonucleotides with Single-Wall Carbon Nanotubes:Â Synthesis and Hybridization. Nano Letters, 2002, 2, 1413-1417. | 4.5 | 367 |
| 14 | Imaging chemical-bond formation with the scanning tunneling microscope:NH3dissociation on Si(001). Physical Review Letters, 1987, 59, 2071-2074. | 2.9 | 331 |
| 15 | Finite-temperature phase diagram of vicinal Si(100) surfaces. Physical Review Letters, 1990, 64, 2406-2409. | 2.9 | 315 |
| 16 | Distribution of Thiobacillus ferrooxidans and Leptospirillum ferrooxidans: Implications for Generation of Acid Mine Drainage. Science, 1998, 279, 1519-1522. | 6.0 | 315 |
| 17 | Covalent attachment of oligodeoxyribonucleotides to amine-modified Si (001) surfaces. Nucleic Acids Research, 2000, 28, 3535-3541. | 6.5 | 272 |
| 18 | Electronic and geometric structure of Si(111)-(7 Ã— 7) and Si(001) surfaces. Surface Science, 1987, 181, 346-355. | 0.8 | 251 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Photochemical Functionalization of Diamond Films. Langmuir, 2002, 18, 968-971. | 1.6 | 250 |
| 20 | Local electron states and surface geometry of Si(111)-â^š3 â^š3Ag. Physical Review Letters, 1987, 58, 373-376. | 2.9 | 249 |
| 21 | Enhanced Adsorption of Molecules on Surfaces of Nanocrystalline Particles. Journal of Physical Chemistry B, 1999, 103, 4656-4662. | 1.2 | 238 |
| 22 | Formation of Ordered, Anisotropic Organic Monolayers on the Si(001) Surface. Journal of Physical Chemistry B, 1997, 101, 1489-1492. | 1.2 | 225 |
| 23 | Rapid Arsenite Oxidation byThermus aquaticusandThermus thermophilus:Â Field and Laboratory Investigations. Environmental Science & Technology, 2001, 35, 3857-3862. | 4.6 | 223 |
| 24 | Direct observation of the precession of individual paramagnetic spins on oxidized silicon surfaces. Physical Review Letters, 1989, 62, 2531-2534. | 2.9 | 222 |
| 25 | Quantum Dot Nanotoxicity Assessment Using the Zebrafish Embryo. Environmental Science & Technology, 2009, 43, 1605-1611. | 4.6 | 221 |
| 26 | Facile post-growth doping of nanostructured hematite photoanodes for enhanced photoelectrochemical water oxidation. Energy and Environmental Science, 2013, 6, 500-512. | 15.6 | 220 |
| 27 | Electrostatic sample-tip interactions in the scanning tunneling microscope. Physical Review Letters, 1993, 70, 2471-2474. | 2.9 | 214 |
| 28 | Effect of Ozone Oxidation on Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 7113-7118. | 1.2 | 208 |
| 29 | Stabilization of the Metastable Lead Iodide Perovskite Phase via Surface Functionalization. Nano Letters, 2017, 17, 4405-4414. | 4.5 | 204 |
| 30 | Impacts of gold nanoparticle charge and ligand type on surface binding and toxicity to Gram-negative and Gram-positive bacteria. Chemical Science, 2015, 6, 5186-5196. | 3.7 | 203 |
| 31 | Facile Solution Synthesis of Î±-FeF<sub>3</sub>Â·3H<sub>2</sub>O Nanowires and Their Conversion to Î±-Fe<sub>2</sub>O<sub>3</sub> Nanowires for Photoelectrochemical Application. Nano Letters, 2012, 12, 724-731. | 4.5 | 198 |
| 32 | Atomic and electronic contributions to Si(111)-(7Ã—7) scanning-tunneling-microscopy images. Physical Review B, 1986, 34, 1388-1391. | 1.1 | 192 |
| 33 | Silicon Surfaces as Electron Acceptors:Â Dative Bonding of Amines with Si(001) and Si(111) Surfaces. Journal of the American Chemical Society, 2001, 123, 10988-10996. | 6.6 | 191 |
| 34 | DNA Attachment and Hybridization at the Silicon (100) Surface. Langmuir, 2002, 18, 788-796. | 1.6 | 190 |
| 35 | Covalently Modified Silicon and Diamond Surfaces:Â Resistance to Nonspecific Protein Adsorption and Optimization for Biosensing. Journal of the American Chemical Society, 2004, 126, 10220-10221. | 6.6 | 189 |
| 36 | Amorphous MoS<sub>x</sub>Cl<sub>y</sub> electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. Energy and Environmental Science, 2015, 8, 862-868. | 15.6 | 183 |

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| 37 | Covalent Attachment of Catalyst Molecules to Conductive Diamond: CO<sub>2</sub> Reduction Using â€œSmartâ€•Electrodes. Journal of the American Chemical Society, 2012, 134, 15632-15635. | 6.6 | 177 |
| 38 | Atomic-Resolution Surface Spectroscopy with the Scanning Tunneling Microscope. Annual Review of Physical Chemistry, 1989, 40, 531-559. | 4.8 | 173 |
| 39 | Flexible electronic futures. Nature, 2001, 412, 489-490. | 13.7 | 173 |
| 40 | Atomically-Resolved Studies of the Chemistry and Bonding at Silicon Surfaces. Chemical Reviews, 1996, 96, 1261-1290. | 23.0 | 172 |
| 41 | Synthesis and Properties of Semiconducting Iron Pyrite (FeS<sub>2</sub>) Nanowires. Nano Letters, 2012, 12, 1977-1982. | 4.5 | 164 |
| 42 | Direct electrical detection of hybridization at DNA-modified silicon surfaces. Biosensors and Bioelectronics, 2004, 19, 1013-1019. | 5.3 | 161 |
| 43 | Geomicrobiology of Pyrite (FeS2) Dissolution: Case Study at Iron Mountain, California. Geomicrobiology Journal, 1999, 16, 155-179. | 1.0 | 158 |
| 44 | Nucleation and growth of epitaxial silicon on Si(001) and Si(111) surfaces by scanning tunneling microscopy. Ultramicroscopy, 1989, 31, 10-19. | 0.8 | 153 |
| 45 | Electrically Addressable Biomolecular Functionalization of Carbon Nanotube and Carbon Nanofiber Electrodes. Nano Letters, 2004, 4, 1713-1716. | 4.5 | 150 |
| 46 | An X-ray photoelectron spectroscopy study of the bonding of unsaturated organic molecules to the Si(001) surface. Surface Science, 1998, 416, 354-362. | 0.8 | 145 |
| 47 | Interfacial Electrical Properties of DNA-Modified Diamond Thin Films:Â Intrinsic Response and Hybridization-Induced Field Effects. Langmuir, 2004, 20, 6778-6787. | 1.6 | 143 |
| 48 | Surface chemistry, charge and ligand type impact the toxicity of gold nanoparticles to Daphnia magna. Environmental Science: Nano, 2014, 1, 260-270. | 2.2 | 143 |
| 49 | Atomically resolved carrier recombination at Si(111)-7Ã—7 surfaces. Physical Review Letters, 1990, 64, 1051-1054. | 2.9 | 140 |
| 50 | Stereoselectivity in Moleculeâ^'Surface Reactions:Â Adsorption of Ethylene on the Silicon(001) Surface. Journal of the American Chemical Society, 1997, 119, 7593-7594. | 6.6 | 138 |
| 51 | Tunneling microscopy, lithography, and surface diffusion on an easily prepared, atomically flat gold surface. Journal of Applied Physics, 1988, 63, 717-721. | 1.1 | 137 |
| 52 | Titanium dioxide nanoparticles produce phototoxicity in the developing zebrafish. Nanotoxicology, 2012, 6, 670-679. | 1.6 | 136 |
| 53 | A Photopatternable Pentacene Precursor for Use in Organic Thin-Film Transistors. Journal of the American Chemical Society, 2004, 126, 12740-12741. | 6.6 | 135 |
| 54 | Malic Acid Carbon Dots: From Super-resolution Live-Cell Imaging to Highly Efficient Separation. ACS Nano, 2018, 12, 5741-5752. | 7.3 | 135 |

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| 55 | DNA-Modified Diamond Surfaces. Langmuir, 2003, 19, 1938-1942. | 1.6 | 134 |
| 56 | Copper Based Nanomaterials Suppress Root Fungal Disease in Watermelon (Citrullus lanatus): Role of Particle Morphology, Composition and Dissolution Behavior. ACS Sustainable Chemistry and Engineering, 2018, 6, 14847-14856. | 3.2 | 133 |
| 57 | Cycloaddition Chemistry of 1,3-Dienes on the Silicon(001) Surface:Â Competition between [4 + 2] and [2 + 2] Reactions. Journal of Physical Chemistry B, 1998, 102, 6873-6879. | 1.2 | 132 |
| 58 | Structure and Bonding of Ordered Organic Monolayers of 1,5-Cyclooctadiene on the Silicon(001) Surface. Journal of Physical Chemistry B, 1997, 101, 9581-9585. | 1.2 | 131 |
| 59 | Geochemical and biological aspects of sulfide mineral dissolution: lessons from Iron Mountain, California. Chemical Geology, 2000, 169, 383-397. | 1.4 | 129 |
| 60 | Influence of Humic Acid on Titanium Dioxide Nanoparticle Toxicity to Developing Zebrafish. Environmental Science & Technology, 2013, 47, 4718-4725. | 4.6 | 129 |
| 61 | Surface Reconstruction and the Nucleation of Palladium Silicide on Si(111). Physical Review Letters, 1988, 60, 2499-2502. | 2.9 | 127 |
| 62 | Photochemical Functionalization of Hydrogen-Terminated Diamond Surfaces:Â A Structural and Mechanistic Study. Journal of Physical Chemistry B, 2005, 109, 20938-20947. | 1.2 | 127 |
| 63 | Formation and Characterization of Organic Monolayers on Semiconductor Surfaces. Annual Review of Analytical Chemistry, 2008, 1, 707-736. | 2.8 | 127 |
| 64 | Hierarchical Assembly of Nanoparticle Superstructures from Block Copolymer-Nanoparticle Composites. Physical Review Letters, 2008, 100, 148303. | 2.9 | 126 |
| 65 | Bonding of Nitrogen-Containing Organic Molecules to the Silicon(001) Surface:â€‰ The Role of Aromaticity. Journal of Physical Chemistry B, 2001, 105, 3759-3768. | 1.2 | 123 |
| 66 | Electronic Structure of Localized Si Dangling-Bond Defects by Tunneling Spectroscopy. Physical Review Letters, 1988, 60, 2527-2530. | 2.9 | 121 |
| 67 | Effects of coverage on the geometry and electronic structure of Al overlayers on Si(111). Physical Review B, 1989, 40, 1657-1671. | 1.1 | 121 |
| 68 | Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. ACS Central Science, 2015, 1, 117-123. | 5.3 | 121 |
| 69 | Investigation of phosphorous doping effects on polymeric carbon dots: Fluorescence, photostability, and environmental impact. Carbon, 2018, 129, 438-449. | 5.4 | 115 |
| 70 | Basal-Plane Ligand Functionalization on Semiconducting 2H-MoS<sub>2</sub> Monolayers. ACS Applied Materials & Interfaces, 2017, 9, 12734-12742. | 4.0 | 112 |
| 71 | Atomic Layer Deposited MgO: A Lower Overpotential Coating for Li[Ni<sub>0.5</sub>Mn<sub>0.3</sub>Co<sub>0.2</sub>]O<sub>2</sub> Cathode. ACS Applied Materials & Interfaces, 2017, 9, 11231-11239. | 4.0 | 111 |
| 72 | Functional Monolayers for Improved Resistance to Protein Adsorption:â€‰ Oligo(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td | 1.6 | 110 |

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| 73 | Kinetics, surface chemistry, and structural evolution of microbially mediated sulfide mineral dissolution. Geochimica Et Cosmochimica Acta, 2001, 65, 1243-1258. | 1.6 | 105 |
| 74 | An atomically resolved scanning tunneling microscopy study of the thermal decomposition of disilane on Si(001). Surface Science, 1994, 311, 64-100. | 0.8 | 103 |
| 75 | Atomic Structure and Bonding of Boron-Induced Reconstructions on Si(001). Physical Review Letters, 1995, 74, 403-406. | 2.9 | 101 |
| 76 | Cycloaddition Chemistry at Surfaces:Â Reaction of Alkenes with the Diamond(001)-2 Ã— 1 Surface. Journal of the American Chemical Society, 2000, 122, 732-733. | 6.6 | 98 |
| 77 | Advanced material modulation of nutritional and phytohormone status alleviates damage from soybean sudden death syndrome. Nature Nanotechnology, 2020, 15, 1033-1042. | 15.6 | 98 |
| 78 | Microbial oxidation of pyrite; experiments using microorganisms from an extreme acidic environment. American Mineralogist, 1998, 83, 1444-1453. | 0.9 | 97 |
| 79 | UV-Induced Grafting of Alkenes to Silicon Surfaces: Photoemission versus Excitons. Journal of the American Chemical Society, 2010, 132, 4048-4049. | 6.6 | 97 |
| 80 | Quantum States and Atomic Structure of Silicon Surfaces. Science, 1986, 234, 304-309. | 6.0 | 96 |
| 81 | Frequency-dependent electrical detection of protein binding events. Analyst, The, 2004, 129, 3. | 1.7 | 96 |
| 82 | Covalent Photochemical Functionalization of Amorphous Carbon Thin Films for Integrated Real-Time Biosensing. Langmuir, 2006, 22, 9598-9605. | 1.6 | 96 |
| 83 | Ionization of High-Density Deep Donor Defect States Explains the Low Photovoltage of Iron Pyrite Single Crystals. Journal of the American Chemical Society, 2014, 136, 17163-17179. | 6.6 | 95 |
| 84 | Covalent Functionalization for Biomolecular Recognition on Vertically Aligned Carbon Nanofibers. Chemistry of Materials, 2005, 17, 4971-4978. | 3.2 | 93 |
| 85 | Designing Efficient Solarâ€Driven Hydrogen Evolution Photocathodes Using Semitransparent MoQ<sub>x</sub>Cl<sub>y</sub> (Q = S, Se) Catalysts on Si Micropyramids. Advanced Materials, 2015, 27, 6511-6518. | 11.1 | 93 |
| 86 | Molecular and biomolecular monolayers on diamond as an interface to biology. Diamond and Related Materials, 2005, 14, 661-668. | 1.8 | 92 |
| 87 | Selective Photoelectrochemical Reduction of Aqueous CO<sub>2</sub> to CO by Solvated Electrons. Angewandte Chemie - International Edition, 2014, 53, 9746-9750. | 7.2 | 90 |
| 88 | Fabrication and characterization of a biologically sensitive field-effect transistor using a nanocrystalline diamond thin film. Applied Physics Letters, 2004, 85, 3626-3628. | 1.5 | 89 |
| 89 | Interaction of Ï€-Conjugated Organic Molecules with Ï€-Bonded Semiconductor Surfaces:â€‰ Structure, Selectivity, and Mechanistic Implications. Journal of the American Chemical Society, 2000, 122, 8529-8538. | 6.6 | 88 |
| 90 | Discovery and Elucidation of Counteranion Dependence in Photoredox Catalysis. Journal of the American Chemical Society, 2019, 141, 6385-6391. | 6.6 | 88 |

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| 91 | Preparation of clean and atomically flat germanium(001) surfaces. Surface Science, 1999, 440, L815-L819. | 0.8 | 87 |
| 92 | Surface functionalization of thin-film diamond for highly stable and selective biological interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 983-988. | 3.3 | 87 |
| 93 | Defect chemistry in CaF2:Eu3+. Journal of Chemical Physics, 1982, 77, 683-692. | 1.2 | 86 |
| 94 | Atomic-resolution study of overlayer formation and interfacial mixing in the interaction of phosphorus with Si(001). Physical Review B, 1994, 50, 4534-4547. | 1.1 | 85 |
| 95 | Direct Chemical Vapor Deposition Synthesis of Phase-Pure Iron Pyrite (FeS<sub>2</sub>) Thin Films. Chemistry of Materials, 2015, 27, 3108-3114. | 3.2 | 85 |
| 96 | TiO<sub>2</sub> Nanoparticle Exposure and Illumination during Zebrafish Development: Mortality at Parts per Billion Concentrations. Environmental Science & Technology, 2013, 47, 4726-4733. | 4.6 | 84 |
| 97 | Kinetics and mechanism of polythionate oxidation to sulfate at low pH by O2 and Fe3+. Geochimica Et Cosmochimica Acta, 2003, 67, 4457-4469. | 1.6 | 83 |
| 98 | Transient 2D IR Spectroscopy of Charge Injection in Dye-Sensitized Nanocrystalline Thin Films. Journal of the American Chemical Society, 2009, 131, 18040-18041. | 6.6 | 83 |
| 99 | Grafting of poly(3-hexylthiophene) brushes on oxides using click chemistry. Journal of Materials Chemistry, 2010, 20, 2651-2658. | 6.7 | 83 |
| 100 | Multicolor polymeric carbon dots: synthesis, separation and polyamide-supported molecular fluorescence. Chemical Science, 2021, 12, 2441-2455. | 3.7 | 82 |
| 101 | Ultrafast time resolution in scanned probe microscopies. Applied Physics Letters, 1990, 57, 2031-2033. | 1.5 | 81 |
| 102 | Complex and Noncentrosymmetric Stacking of Layered Metal Dichalcogenide Materials Created by Screw Dislocations. Journal of the American Chemical Society, 2017, 139, 3496-3504. | 6.6 | 81 |
| 103 | Quantitative Determination of Ligand Densities on Nanomaterials by X-ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2015, 7, 1720-1725. | 4.0 | 79 |
| 104 | Electrically Addressable Biomolecular Functionalization of Conductive Nanocrystalline Diamond Thin Films. Chemistry of Materials, 2005, 17, 938-940. | 3.2 | 77 |
| 105 | Functionalized Vertically Aligned Carbon Nanofibers as Scaffolds for Immobilization and Electrochemical Detection of Redox-Active Proteins. Chemistry of Materials, 2006, 18, 4415-4422. | 3.2 | 77 |
| 106 | Effects of charge and surface ligand properties of nanoparticles on oxidative stress and gene expression within the gut of Daphnia magna. Aquatic Toxicology, 2015, 162, 1-9. | 1.9 | 77 |
| 107 | Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. Journal of Physical Chemistry C, 2015, 119, 534-546. | 1.5 | 77 |
| 108 | Controlled formation of organic layers on semiconductor surfaces. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 1153. | 1.6 | 76 |

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| 109 | A scanning tunneling microscope for surface science studies. IBM Journal of Research and Development, 1986, 30, 396-402. | 3.2 | 74 |
| 110 | Chemical Modification and Patterning of Iodine-Terminated Silicon Surfaces Using Visible Light. Journal of Physical Chemistry B, 2002, 106, 2656-2664. | 1.2 | 74 |
| 111 | Photochemical Functionalization of Gallium Nitride Thin Films with Molecular and Biomolecular Layers. Langmuir, 2006, 22, 8121-8126. | 1.6 | 74 |
| 112 | Photochemical Grafting of n-Alkenes onto Carbon Surfaces:â€‰ the Role of Photoelectron Ejection. Journal of the American Chemical Society, 2007, 129, 13554-13565. | 6.6 | 74 |
| 113 | Adsorption and Dissociation of Phosphine on Si(001). The Journal of Physical Chemistry, 1996, 100, 4961-4969. | 2.9 | 73 |
| 114 | A new look at microbial leaching patterns on sulfide minerals. FEMS Microbiology Ecology, 2001, 34, 197-206. | 1.3 | 73 |
| 115 | Covalent functionalization and biomolecular recognition properties of DNA-modified silicon nanowires. Nanotechnology, 2005, 16, 1868-1873. | 1.3 | 73 |
| 116 | Crystallographic Facet Dependence of the Hydrogen Evolution Reaction on CoPS: Theory and Experiments. ACS Catalysis, 2018, 8, 1143-1152. | 5.5 | 71 |
| 117 | Impact of Nanoscale Lithium Nickel Manganese Cobalt Oxide (NMC) on the Bacterium Shewanella oneidensis MR-1. Chemistry of Materials, 2016, 28, 1092-1100. | 3.2 | 70 |
| 118 | Anode-originated SEI migration contributes to formation of cathode-electrolyte interphase layer. Journal of Power Sources, 2018, 373, 184-192. | 4.0 | 69 |
| 119 | Time-Dependent Transcriptional Response of Tomato (Solanum lycopersicum L.) to Cu Nanoparticle Exposure upon Infection with Fusarium oxysporum f. sp. lycopersici. ACS Sustainable Chemistry and Engineering, 2019, 7, 10064-10074. | 3.2 | 69 |
| 120 | Formation of supported lipid bilayers containing phase-segregated domains and their interaction with gold nanoparticles. Environmental Science: Nano, 2016, 3, 45-55. | 2.2 | 68 |
| 121 | Phase Separation on an Atomic Scale: The Formation of a Novel Quasiperiodic 2D Structure. Physical Review Letters, 1989, 62, 641-644. | 2.9 | 67 |
| 122 | Adsorption of Phenyl Isothiocyanate on Si(001):â€‰ A 1,2-Dipolar Surface Addition Reaction. Journal of Physical Chemistry B, 1999, 103, 6243-6251. | 1.2 | 66 |
| 123 | A Citric Acid-Derived Ligand for Modular Functionalization of Metal Oxide Surfaces via â€œClickâ€• Chemistry. Langmuir, 2012, 28, 1322-1329. | 1.6 | 66 |
| 124 | Solution NMR Analysis of Ligand Environment in Quaternary Ammonium-Terminated Self-Assembled Monolayers on Gold Nanoparticles: The Effect of Surface Curvature and Ligand Structure. Journal of the American Chemical Society, 2019, 141, 4316-4327. | 6.6 | 66 |
| 125 | Interfacial Chemistry of Pentacene on Clean and Chemically Modified Silicon (001) Surfaces. Journal of Physical Chemistry B, 2003, 107, 11142-11148. | 1.2 | 65 |
| 126 | Ab Initio Modeling of Electrolyte Molecule Ethylene Carbonate Decomposition Reaction on Li(Ni,Mn,Co)O<sub>2</sub> Cathode Surface. ACS Applied Materials & Interfaces, 2017, 9, 20545-20553. | 4.0 | 65 |

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| 127 | Extraction and Quantitative Analysis of Elemental Sulfur from Sulfide Mineral Surfaces by High-Performance Liquid Chromatography. Environmental Science & Technology, 2000, 34, 4651-4655. | 4.6 | 64 |
| 128 | Chemical mapping of elemental sulfur on pyrite and arsenopyrite surfaces using near-infrared Raman imaging microscopy. Applied Surface Science, 2001, 178, 105-115. | 3.1 | 63 |
| 129 | Interactions of alkylamines with the silicon (001) surface. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 1614. | 1.6 | 62 |
| 130 | Electrical Properties of Diamond Surfaces Functionalized with Molecular Monolayersâ€. Journal of Physical Chemistry B, 2005, 109, 8523-8532. | 1.2 | 62 |
| 131 | Using citrate-functionalized TiO2 nanoparticles to study the effect of particle size on zebrafish embryo toxicity. Analyst, The, 2014, 139, 964. | 1.7 | 62 |
| 132 | Natural Organic Matter Concentration Impacts the Interaction of Functionalized Diamond Nanoparticles with Model and Actual Bacterial Membranes. Environmental Science & Technology, 2017, 51, 11075-11084. | 4.6 | 61 |
| 133 | Structure and Bonding of Ordered Organic Monolayers of 1,3,5,7-Cyclooctatetraene on the Si(001) Surface:â€‰ Surface Cycloaddition Chemistry of an Antiaromatic Molecule. Journal of Physical Chemistry B, 1998, 102, 687-692. | 1.2 | 60 |
| 134 | Carbon-on-Metal Films for Surface Plasmon Resonance Detection of DNA Arrays. Journal of the American Chemical Society, 2008, 130, 8611-8613. | 6.6 | 60 |
| 135 | Fluorideâ€Modulated Cobalt Catalysts for Electrochemical Oxidation of Water under Nonâ€Alkaline Conditions. ChemSusChem, 2010, 3, 1176-1179. | 3.6 | 60 |
| 136 | Nanomaterials and Global Sustainability. Accounts of Chemical Research, 2017, 50, 633-637. | 7.6 | 60 |
| 137 | Direct electrical detection of antigenâ€“antibody binding on diamond and silicon substrates using electrical impedance spectroscopy. Analyst, The, 2007, 132, 296-306. | 1.7 | 59 |
| 138 | Toxicity of Oxidatively Degraded Quantum Dots to Developing Zebrafish (Danio rerio). Environmental Science & Technology, 2013, 47, 9132-9139. | 4.6 | 59 |
| 139 | Sulfur Atoms as Tethers for Selective Attachment of Aromatic Molecules to Silicon(001) Surfaces. Journal of Physical Chemistry B, 2001, 105, 3079-3087. | 1.2 | 58 |
| 140 | Adsorption and dissociation of disilane on Si(001) studied by STM. Surface Science, 1993, 298, 50-62. | 0.8 | 57 |
| 141 | Reactions of substituted aromatic hydrocarbons with the Si(001) surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1965-1970. | 0.9 | 57 |
| 142 | Conformational Disorder Enhances Electron Transfer Through Alkyl Monolayers: Ferrocene on Conductive Diamond. Journal of the American Chemical Society, 2013, 135, 5751-5761. | 6.6 | 57 |
| 143 | Cascading Effects of Nanoparticle Coatings: Surface Functionalization Dictates the Assemblage of Complexed Proteins and Subsequent Interaction with Model Cell Membranes. ACS Nano, 2017, 11, 5489-5499. | 7.3 | 57 |
| 144 | Dissolution of Complex Metal Oxides from First-Principles and Thermodynamics: Cation Removal from the (001) Surface of Li(Ni<sub>1/3</sub>Mn<sub>1/3</sub>Co<sub>1/3</sub>)O<sub>2</sub>. Environmental Science & Technology, 2018, 52, 5792-5802. | 4.6 | 57 |

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| 145 | An Atomically Resolved STM Study of the Interaction of Phosphine with the Silicon(001) Surface. The Journal of Physical Chemistry, 1994, 98, 5966-5973. | 2.9 | 56 |
| 146 | Scanning Tunneling Microscopy of Organic Molecules and Monolayers on Silicon and Germanium (001) Surfaces. Japanese Journal of Applied Physics, 1999, 38, 3879-3887. | 0.8 | 55 |
| 147 | Fabrication and characterization of vertically aligned carbon nanofiber electrodes for biosensing applications. Diamond and Related Materials, 2006, 15, 433-439. | 1.8 | 55 |
| 148 | Engineered Nanomaterial Transformation under Oxidative Environmental Conditions: Development of an in vitro Biomimetic Assay. Environmental Science & Technology, 2009, 43, 1598-1604. | 4.6 | 54 |
| 149 | Nanoscale solid-state quantum computing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 1473-1485. | 1.6 | 52 |
| 150 | Invasive cleavage reactions on DNA-modified diamond surfaces. Biopolymers, 2004, 73, 606-613. | 1.2 | 52 |
| 151 | Photogating carbon nanotube transistors. Journal of Applied Physics, 2006, 100, 084306. | 1.1 | 52 |
| 152 | The role of Pi-conjugation in attachment of organic molecules to the silicon (001) surface. Surface Science, 2002, 515, 75-86. | 0.8 | 51 |
| 153 | Surface Chemistry for Stable and Smart Molecular and Biomolecular Interfaces via Photochemical Grafting of Alkenes. Accounts of Chemical Research, 2010, 43, 1205-1215. | 7.6 | 51 |
| 154 | Highly Stable Redox-Active Molecular Layers by Covalent Grafting to Conductive Diamond. Journal of the American Chemical Society, 2011, 133, 5692-5694. | 6.6 | 51 |
| 155 | Atomic Layer Deposition of Al<sub>2</sub>O<sub>3</sub>â€“Ga<sub>2</sub>O<sub>3</sub> Alloy Coatings for Li[Ni<sub>0.5</sub>Mn<sub>0.3</sub>Co<sub>0.2</sub>]O<sub>2</sub> Cathode to Improve Rate Performance in Li-Ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 10572-10580. | 4.0 | 51 |
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