

Kevin F Mccarty

List of Publications by Year in descending order

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144
papers

10,085
citations

36203

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34900

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146
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docs citations

146
times ranked

10095
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Role of Surface Oxygen in the Growth of Large Single-Crystal Graphene on Copper. <i>Science</i> , 2013, 342, 720-723. | 6.0 | 977 |
| 2 | Review of advances in cubic boron nitride film synthesis. <i>Materials Science and Engineering Reports</i> , 1997, 21, 47-100. | 14.8 | 567 |
| 3 | Heteroepitaxial Growth of Two-Dimensional Hexagonal Boron Nitride Templated by Graphene Edges. <i>Science</i> , 2014, 343, 163-167. | 6.0 | 479 |
| 4 | Graphene Islands on Cu Foils: The Interplay between Shape, Orientation, and Defects. <i>Nano Letters</i> , 2010, 10, 4890-4896. | 4.5 | 337 |
| 5 | Evidence for graphene growth by C cluster attachment. <i>New Journal of Physics</i> , 2008, 10, 093026. | 1.2 | 262 |
| 6 | Measuring fundamental properties in operating solid oxide electrochemical cells by using in situ X-ray photoelectron spectroscopy. <i>Nature Materials</i> , 2010, 9, 944-949. | 13.3 | 257 |
| 7 | Factors influencing graphene growth on metal surfaces. <i>New Journal of Physics</i> , 2009, 11, 063046. | 1.2 | 241 |
| 8 | Ion-assisted pulsed laser deposition of cubic boron nitride films. <i>Journal of Applied Physics</i> , 1994, 76, 3088-3101. | 1.1 | 235 |
| 9 | Intercalation Pathway in Many-Particle LiFePO_4 Electrode Revealed by Nanoscale State-of-Charge Mapping. <i>Nano Letters</i> , 2013, 13, 866-872. | 4.5 | 206 |
| 10 | On the role of ions in the formation of cubic boron nitride films by ion-assisted deposition. <i>Journal of Materials Research</i> , 1994, 9, 2925-2938. | 1.2 | 201 |
| 11 | Origin of the mosaicity in graphene grown on Cu(111). <i>Physical Review B</i> , 2011, 84, . | 1.1 | 183 |
| 12 | Defects of graphene on Ir(111): Rotational domains and ridges. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 181 |
| 13 | A Raman study of the systems $\text{Fe}_{3-x}\text{Cr}_x\text{O}_4$ and $\text{Fe}_{2-x}\text{Cr}_x\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 1989, 79, 19-27. | 1.4 | 177 |
| 14 | Highly Enhanced Concentration and Stability of Reactive Ce^{3+} on Doped CeO_2 Surface Revealed In Operando. <i>Chemistry of Materials</i> , 2012, 24, 1876-1882. | 3.2 | 169 |
| 15 | Growth from below: bilayer graphene on copper by chemical vapor deposition. <i>New Journal of Physics</i> , 2012, 14, 093028. | 1.2 | 150 |
| 16 | Electronic structure of graphene on single-crystal copper substrates. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 148 |
| 17 | In-plane orientation effects on the electronic structure, stability, and Raman scattering of monolayer graphene on Ir(111). <i>Physical Review B</i> , 2011, 83, . | 1.1 | 146 |
| 18 | The relationship between the spatially resolved field emission characteristics and the raman spectra of a nanocrystalline diamond cold cathode. <i>Applied Physics Letters</i> , 1996, 69, 3842-3844. | 1.5 | 144 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Raman-active phonons of a twin-free YBa ₂ Cu ₃ O ₇ crystal: A complete polarization analysis. <i>Physical Review B</i> , 1990, 41, 8792-8797. | 1.1 | 140 |
| 20 | Inelastic light scattering in $\hat{\Gamma}_2$ -Fe ₂ O ₃ : Phonon vs magnon scattering. <i>Solid State Communications</i> , 1988, 68, 799-802. | 0.9 | 131 |
| 21 | Thermal stability of amorphous carbon films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 1996, 68, 1643-1645. | 1.5 | 122 |
| 22 | Orientation-dependent work function of graphene on Pd(111). <i>Applied Physics Letters</i> , 2010, 97, . | 1.5 | 122 |
| 23 | Structure of the $\hat{\Gamma}_2$ -Al ₂ O ₃ (0001) surface from low-energy electron diffraction: $\hat{\Gamma}_2$ termination and evidence for anomalously large thermal vibrations. <i>Physical Review B</i> , 2002, 65, . | 1.1 | 115 |
| 24 | Oxidation of Graphene on Metals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5134-5140. | 1.5 | 111 |
| 25 | Vacancies in solids and the stability of surface morphology. <i>Nature</i> , 2001, 412, 622-625. | 13.7 | 107 |
| 26 | Growth from Below: Graphene Bilayers on Ir(111). <i>ACS Nano</i> , 2011, 5, 2298-2306. | 7.3 | 105 |
| 27 | Kinetics and thermodynamics of carbon segregation and graphene growth on Ru(0001). <i>Carbon</i> , 2009, 47, 1806-1813. | 5.4 | 104 |
| 28 | Microstructure of cubic boron nitride thin films grown by ion-assisted pulsed laser deposition. <i>Journal of Applied Physics</i> , 1994, 76, 295-303. | 1.1 | 102 |
| 29 | Self-limiting growth of copper islands on TiO ₂ (110)-(1 \times 1). <i>Surface Science</i> , 2000, 450, 78-97. | 0.8 | 98 |
| 30 | The synthesis, characterization, and mechanical properties of thick, ultrahard cubic boron nitride films deposited by ion-assisted sputtering. <i>Journal of Applied Physics</i> , 1997, 82, 1617-1625. | 1.1 | 97 |
| 31 | Scanning tunneling microscopy study of graphene on Au(111): Growth mechanisms and substrate interactions. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 89 |
| 32 | The surface structure of $\hat{\Gamma}_2$ -Al ₂ O ₃ determined by low-energy electron diffraction: aluminum termination and evidence for anomalously large thermal vibrations. <i>Surface Science</i> , 2000, 464, L732-L738. | 0.8 | 81 |
| 33 | In Situ Characterization of Ceria Oxidation States in High-Temperature Electrochemical Cells with Ambient Pressure XPS. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19853-19861. | 1.5 | 81 |
| 34 | Graphene growth on metal surfaces. <i>MRS Bulletin</i> , 2012, 37, 1158-1165. | 1.7 | 81 |
| 35 | Surface and interface segregation in $\hat{\Gamma}_2$ -NiAl with and without Pt addition. <i>Scripta Materialia</i> , 2006, 54, 937-941. | 2.6 | 79 |
| 36 | Extraordinary epitaxial alignment of graphene islands on Au(111). <i>New Journal of Physics</i> , 2012, 14, 053008. | 1.2 | 78 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Growth of cubic BN films on SiC by ion-assisted pulsed laser deposition. <i>Applied Physics Letters</i> , 1995, 66, 2813-2815. | 1.5 | 77 |
| 38 | Orientation relationships in heteroepitaxial aluminum films on sapphire. <i>Thin Solid Films</i> , 1997, 299, 110-114. | 0.8 | 73 |
| 39 | Lattice dynamics of NaAlH_4 from high-temperature single-crystal Raman scattering and ab initio calculations: Evidence of highly stable AlH_4^- anions. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 71 |
| 40 | Magnetism in nanometer-thick magnetite. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 71 |
| 41 | Small, uniform, and thermally stable silver particles on $\text{TiO}_2(110)-(1\times 1)$. <i>Surface Science</i> , 2000, 464, L708-L714. | 0.8 | 68 |
| 42 | Imaging Spin-Reorientation Transitions in Consecutive Atomic Co Layers on $\text{Ru}(0001)$. <i>Physical Review Letters</i> , 2006, 96, 147202. | 2.9 | 68 |
| 43 | Preparation and Raman analysis of single-phase $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Physical Review B</i> , 1989, 39, 12383-12386. | 1.1 | 67 |
| 44 | Unusual role of epilayer-substrate interactions in determining orientational relations in van der Waals epitaxy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16670-16675. | 3.3 | 64 |
| 45 | Hydrodesulfurization catalysis by Chevrel phase compounds. <i>Journal of Catalysis</i> , 1985, 93, 375-387. | 3.1 | 63 |
| 46 | Analysis of residual stress in cubic boron nitride thin films using micromachined cantilever beams. <i>Diamond and Related Materials</i> , 1996, 5, 1295-1302. | 1.8 | 62 |
| 47 | Effects of ambient conditions on the adhesion of cubic boron nitride films on silicon substrates. <i>Thin Solid Films</i> , 1994, 253, 130-135. | 0.8 | 61 |
| 48 | Herringbone and triangular patterns of dislocations in Ag, Au, and AgAu alloy films on $\text{Ru}(0001)$. <i>Surface Science</i> , 2006, 600, 1735-1757. | 0.8 | 60 |
| 49 | High-temperature Raman measurements of single-crystal $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 1988, 38, 2914-2917. | 1.1 | 59 |
| 50 | Crystallographic texture in cubic boron nitride thin films. <i>Journal of Applied Physics</i> , 1996, 79, 3567-3571. | 1.1 | 56 |
| 51 | Enhanced Self-Diffusion on $\text{Cu}(111)$ by Trace Amounts of S: Chemical-Reaction-Limited Kinetics. <i>Physical Review Letters</i> , 2004, 93, 166101. | 2.9 | 54 |
| 52 | Insight into Magnetite's Redox Catalysis from Observing Surface Morphology during Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 10091-10098. | 6.6 | 53 |
| 53 | Temperature dependence of the linewidths of the Raman-active phonons of $\text{YBa}_2\text{Cu}_3\text{O}_7$: Evidence for a superconducting gap between 440 and 500cm^{-1} . <i>Physical Review B</i> , 1991, 43, 13751-13754. | 1.1 | 52 |
| 54 | Pulsed laser deposition of BN onto silicon (100) substrates at $600\text{ }^\circ\text{C}$. <i>Thin Solid Films</i> , 1994, 237, 48-56. | 0.8 | 52 |

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|----|---|-----|-----------|
| 55 | Graphene growth by metal etching on Ru(0001). <i>Physical Review B</i> , 2009, 80, . | 1.1 | 51 |
| 56 | Raman analysis of TlCa ₂ Ba ₂ Cu ₃ O ₁₉ and Tl ₂ Ca ₂ Ba ₂ Cu ₃ O ₁₀ crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 157, 135-143. | 0.6 | 50 |
| 57 | Determining the structure of Ru(0001) from low-energy electron diffraction of a single terrace. <i>Surface Science</i> , 2006, 600, L105-L109. | 0.8 | 50 |
| 58 | Electron-phonon coupling in superconducting Ba _{0.6} K _{0.4} BiO ₃ : A Raman scattering study. <i>Physical Review B</i> , 1989, 40, 2662-2665. | 1.1 | 49 |
| 59 | Electronic Raman scattering of YBa ₂ Cu ₃ O ₇ using c-axis polarization: Evidence for two characteristic superconducting energies. <i>Physical Review B</i> , 1990, 42, 9973-9977. | 1.1 | 49 |
| 60 | Substrate effects in cubic boron nitride film formation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 251-255. | 0.9 | 49 |
| 61 | Deuterodesulfurization of thiophene: An investigation of the reaction mechanism. <i>Journal of Catalysis</i> , 1987, 103, 261-269. | 3.1 | 48 |
| 62 | Measuring individual overpotentials in an operating solid-oxide electrochemical cell. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12138. | 1.3 | 48 |
| 63 | Oxidation stages of Ni electrodes in solid oxide fuel cell environments. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8334. | 1.3 | 47 |
| 64 | Evidence for rhombohedral boron nitride in cubic boron nitride films grown by ion-assisted deposition. <i>Physical Review B</i> , 1994, 50, 7884-7887. | 1.1 | 46 |
| 65 | Role of Bulk Thermal Defects in the Reconstruction Dynamics of the TiO ₂ (110) Surface. <i>Physical Review Letters</i> , 2003, 90, 046104. | 2.9 | 46 |
| 66 | Resonance Raman spectroscopy of G-line and folded phonons in twisted bilayer graphene with large rotation angles. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 46 |
| 67 | Crucial role of substrate steps in de-wetting of crystalline thin films. <i>Surface Science</i> , 2004, 570, L297-L303. | 0.8 | 45 |
| 68 | Oxidation Pathways in Bicomponent Ultrathin Iron Oxide Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11539-11547. | 1.5 | 44 |
| 69 | Anharmonic effects and the two-particle continuum in the Raman spectra of YBa ₂ Cu ₃ O _{6.9} , TlBa ₂ CaCu ₂ O ₇ , and Tl ₂ Ba ₂ CaCu ₂ O ₈ . <i>Physical Review B</i> , 1993, 47, 8910-8916. | 1.1 | 42 |
| 70 | Structure and morphology of ultrathin Co/Ru(0001) films. <i>New Journal of Physics</i> , 2007, 9, 80-80. | 1.2 | 40 |
| 71 | Note: Fixture for characterizing electrochemical devices in-operando in traditional vacuum systems. <i>Review of Scientific Instruments</i> , 2010, 81, 086104. | 0.6 | 39 |
| 72 | Cubic boron nitride formation on Si (100) substrates at room temperature by pulsed laser deposition. <i>Applied Physics Letters</i> , 1992, 61, 2406-2408. | 1.5 | 38 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Hydrodesulfurization by reduced molybdenum sulfides: activity and selectivity of Chevrel phase catalysts. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1984, 23, 519-524. | 0.5 | 37 |
| 74 | On the initial stages of AlN thin-film growth onto (0001) oriented Al ₂ O ₃ substrates by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 1999, 85, 466-472. | 1.1 | 37 |
| 75 | Growth structure and work function of bilayer graphene on Pd(111). <i>Physical Review B</i> , 2012, 85, . | 1.1 | 37 |
| 76 | Room temperature in-plane $\sim 100^\circ$ magnetic easy axis for Fe ₃ O ₄ /SrTiO ₃ (001):Nb grown by infrared pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013, 114, . | 1.1 | 37 |
| 77 | Noble metal capping effects on the spin-reorientation transitions of Co/Ru(0001). <i>New Journal of Physics</i> , 2008, 10, 073024. | 1.2 | 34 |
| 78 | Diffusion mechanisms in chemical vapor-deposited iridium coated on chemical vapor-deposited rhenium. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992, 23, 851-855. | 1.4 | 33 |
| 79 | Orientation-dependence of elastic strain energy in hexagonal and cubic boron nitride layers in energetically deposited BN films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997, 15, 196-200. | 0.9 | 33 |
| 80 | Growth regimes of the oxygen-deficient TiO ₂ (110) surface exposed to oxygen. <i>Surface Science</i> , 2003, 543, 185-206. | 0.8 | 33 |
| 81 | Real-time observation of epitaxial graphene domain reorientation. <i>Nature Communications</i> , 2015, 6, 6880. | 5.8 | 33 |
| 82 | Metallization and superconducting properties of YBa ₂ Cu ₃ O _{6.2} Bry. <i>Physical Review B</i> , 1990, 41, 11140-11148. | 1.1 | 32 |
| 83 | Low-temperature diamond growth in a microwave discharge. <i>Applied Physics Letters</i> , 1989, 55, 2739-2741. | 1.5 | 31 |
| 84 | Scaleable stagnation-flow reactors for uniform materials deposition: Application to combustion synthesis of diamond. <i>Applied Physics Letters</i> , 1993, 63, 1498-1500. | 1.5 | 29 |
| 85 | The 1 $\bar{1}$ –1/1 $\bar{2}$ phase transition of the TiO ₂ ($\bar{1}10$) surface—variation of transition temperature with crystal composition. <i>Surface Science</i> , 2003, 527, L203-L212. | 0.8 | 29 |
| 86 | Structure and magnetism in ultrathin iron oxides characterized by low energy electron microscopy. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 314011. | 0.7 | 29 |
| 87 | How metal films de-wet substrates—identifying the kinetic pathways and energetic driving forces. <i>New Journal of Physics</i> , 2009, 11, 043001. | 1.2 | 29 |
| 88 | Electron reflectivity measurements of Ag adatom concentrations on W(110). <i>Surface Science</i> , 2006, 600, 4062-4066. | 0.8 | 27 |
| 89 | Raman analysis of single-crystal, lead-doped TlCaBa ₂ Cu ₂ O ₇ . <i>Physica C: Superconductivity and Its Applications</i> , 1988, 156, 119-125. | 0.6 | 25 |
| 90 | Superconducting La ₂ CuO _{4+x} prepared by oxygenation at high pressure: A Raman-scattering study. <i>Physical Review B</i> , 1991, 43, 7883-7890. | 1.1 | 24 |

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|-----|---|-----|-----------|
| 91 | On the low-temperature threshold for cubic boron nitride formation in energetic film deposition. <i>Diamond and Related Materials</i> , 1996, 5, 1519-1526. | 1.8 | 24 |
| 92 | Structure and magnetism of ultra-thin chromium layers on W(110). <i>New Journal of Physics</i> , 2008, 10, 013005. | 1.2 | 24 |
| 93 | Raman microprobe analysis of Ti-Ca-Ba-Cu-O polycrystals. <i>Solid State Communications</i> , 1988, 68, 77-80. | 0.9 | 23 |
| 94 | Spatially resolved dynamics of the TiO ₂ (110) surface reconstruction. <i>Surface Science</i> , 2003, 540, 157-171. | 0.8 | 23 |
| 95 | Self-assembly and dynamics of oxide nanorods on NiAl(110). <i>Physical Review B</i> , 2005, 71, . | 1.1 | 23 |
| 96 | Stability of ultrathin alumina layers on NiAl(110). <i>Physical Review B</i> , 2008, 77, . | 1.1 | 21 |
| 97 | Viable thermionic emission from graphene-covered metals. <i>Applied Physics Letters</i> , 2012, 100, 181604. | 1.5 | 21 |
| 98 | Comparison of the Raman-active phonons of YBa ₂ Cu ₃ O ₇ crystals grown in gold and zirconia crucibles. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 192, 331-350. | 0.6 | 20 |
| 99 | The Importance of Threading Dislocations on the Motion of Domain Boundaries in Thin Films. <i>Science</i> , 2005, 308, 1303-1305. | 6.0 | 20 |
| 100 | How plastic deformation can produce texture in graphitic films of boron nitride, carbon nitride, and carbon. <i>Diamond and Related Materials</i> , 1997, 6, 1219-1225. | 1.8 | 19 |
| 101 | In situ Raman spectroscopy of diamond during growth in a hot filament reactor. <i>Journal of Applied Physics</i> , 1992, 72, 2001-2005. | 1.1 | 18 |
| 102 | Translation-related domain boundaries form to relieve strain in a thin alumina film on NiAl (110). <i>Applied Physics Letters</i> , 2006, 88, 141902. | 1.5 | 18 |
| 103 | Nanoscale Periodicity in Stripe-Forming Systems at High Temperature: $W_{1-x}Au_x$ | 2.9 | 18 |
| 104 | Work function of a quasicrystal surface: Icosahedral Al ₁₃ Pd ₁₀ Mn. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 1249-1250. | 0.9 | 18 |
| 105 | Diamond deposition on polycrystalline films of cubic boron nitride. <i>Applied Physics Letters</i> , 1993, 63, 1342-1344. | 1.5 | 16 |
| 106 | Large-area diamond deposition in an atmospheric pressure stagnation-flow reactor. <i>Applied Physics Letters</i> , 1996, 68, 2158-2160. | 1.5 | 16 |
| 107 | Imaging the crystallization and growth of oxide domains on the NiAl(110) surface. <i>Surface Science</i> , 2001, 474, L165-L172. | 0.8 | 16 |
| 108 | Twin Boundaries Can Be Moved by Step Edges During Film Growth. <i>Physical Review Letters</i> , 2005, 95, 166105. | 2.9 | 16 |

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|-----|---|-----|-----------|
| 109 | CO-Assisted Subsurface Hydrogen Trapping in Pd(111) Films. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 87-91. | 2.1 | 16 |
| 110 | Site-selective oxygen-isotope substitution in YBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1991, 44, 9556-9561. | 1.1 | 15 |
| 111 | Determination of diamond film quality during growth using in situ Raman spectroscopy. <i>Diamond and Related Materials</i> , 1994, 3, 22-29. | 1.8 | 15 |
| 112 | Three-fold diffraction symmetry in epitaxial graphene and the SiC substrate. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 15 |
| 113 | Structure of ultrathin Pd films determined by low-energy electron microscopy and diffraction. <i>New Journal of Physics</i> , 2010, 12, 023023. | 1.2 | 15 |
| 114 | Electrochemical intermediate species and reaction pathway in H ₂ oxidation on solid electrolytes. <i>Chemical Communications</i> , 2012, 48, 8338. | 2.2 | 15 |
| 115 | Deposition and analysis of Ir-Al coatings for oxidation protection of carbon materials at high temperatures. <i>Surface and Coatings Technology</i> , 1990, 42, 29-40. | 2.2 | 14 |
| 116 | Surface dynamics dominated by bulk thermal defects: The case of NiAl(110). <i>Physical Review B</i> , 2005, 71, . | 1.1 | 14 |
| 117 | Hydrogen-induced reversible spin-reorientation transition and magnetic stripe domain phase in bilayer Co on Ru(0001). <i>Physical Review B</i> , 2012, 85, . | 1.1 | 14 |
| 118 | Raman scattering as a technique of measuring film thickness: interference effects in thin growing films. <i>Applied Optics</i> , 1987, 26, 4482. | 2.1 | 12 |
| 119 | Deterministic Positioning of Three-Dimensional Structures on a Substrate by Film Growth. <i>Nano Letters</i> , 2006, 6, 858-861. | 4.5 | 12 |
| 120 | Determination of the surface structure of CeO ₂ (111) by low-energy electron diffraction. <i>Journal of Chemical Physics</i> , 2013, 139, 114703. | 1.2 | 12 |
| 121 | Effect of gold-doping on the energy gap of YBa ₂ Cu ₃ O ₇ as determined by Raman scattering. <i>Solid State Communications</i> , 1991, 79, 359-362. | 0.9 | 11 |
| 122 | Micromachined silicon cantilever beams for thin-film stress measurement. <i>Thin Solid Films</i> , 1996, 287, 214-219. | 0.8 | 11 |
| 123 | Preferred orientation in carbon and boron nitride: Does a thermodynamic theory of elastic strain energy get it right?. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 2749-2752. | 0.9 | 11 |
| 124 | Influence of lattice orientation on growth and structure of graphene on Cu(0 0 1). <i>Carbon</i> , 2015, 90, 284-290. | 5.4 | 11 |
| 125 | Crystal growth rate limited by step length λ in the case of oxygen-deficient TiO ₂ exposed to oxygen. <i>Journal of Crystal Growth</i> , 2004, 270, 691-698. | 0.7 | 10 |
| 126 | Evolution of a Reactive Surface via Subsurface Defect Dynamics. <i>Physical Review Letters</i> , 2007, 99, 026101. | 2.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Temperature dependence of the phonon frequencies, linewidths, and Raman-continuum scattering of single-domain $\text{Y}_{0.56}\text{Pr}_{0.44}\text{Ba}_2\text{Cu}_3\text{O}_7$. <i>Physical Review B</i> , 1992, 46, 11958-11964. | 1.1 | 8 |
| 128 | Real-space study of the growth of magnesium on ruthenium. <i>Surface Science</i> , 2011, 605, 903-911. | 0.8 | 8 |
| 129 | Comment on "Growth and characterization of epitaxial cubic boron nitride films on silicon". <i>Physical Review B</i> , 1994, 50, 8907-8910. | 1.1 | 7 |
| 130 | Real-Time Measurements of Deposit Formation from Sodium Sulfate-Seeded Flames. <i>Combustion Science and Technology</i> , 1987, 54, 51-60. | 1.2 | 6 |
| 131 | Dependence of the excitation wavelength on the Raman-active phonons of $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 200, 315-322. | 0.6 | 6 |
| 132 | Real Space Observations of Magnesium Hydride Formation and Decomposition. <i>Chemistry of Materials</i> , 2010, 22, 1291-1293. | 3.2 | 5 |
| 133 | Low-Energy Electron Microscopy. <i>Springer Series in Surface Sciences</i> , 2013, , 531-561. | 0.3 | 5 |
| 134 | In Situ Raman Spectroscopy of High Temperature Pyrite Reactions Related to Deposit Formation from Coal. <i>Journal of the Electrochemical Society</i> , 1989, 136, 1223-1229. | 1.3 | 4 |
| 135 | Preparation of wurtzitic AlN thin films with a novel crystallographic alignment on MgO substrates by molecular-beam epitaxy. <i>Journal of Materials Research</i> , 1998, 13, 1414-1417. | 1.2 | 4 |
| 136 | Measuring the magnetization of three monolayer thick Co islands and films by x-ray dichroism. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 4 |
| 137 | Valence band circular dichroism in non-magnetic $\text{Ag}/\text{Ru}(0001)$ at normal emission. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 305006. | 0.7 | 4 |
| 138 | Periodic step arrays on the aperiodic $\langle \text{Al-Pd-Mn} \rangle$ quasicrystal surface at high temperature. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 3 |
| 139 | Observation of magnetic excitations in antiferromagnetic $\text{TiYBa}_2\text{Cu}_2\text{O}_7$ by inelastic light scattering. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 159, 603-608. | 0.6 | 2 |
| 140 | Systematic study of diamond film deposition in an atmospheric-pressure stagnation-flow flame reactor. <i>Diamond and Related Materials</i> , 1998, 7, 1320-1327. | 1.8 | 1 |
| 141 | $\langle \text{Superconducting } \text{La}_2\text{CuO}_{4+x} \text{ prepared by oxygenation at high pressure: a Raman-scattering study} \rangle$. , 1990, 1336, 77. | | 0 |
| 142 | Pulsed Excimer Laser Ablation Deposition of Boron Nitride on Si (100) Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1992, 242, 593. | 0.1 | 0 |
| 143 | Pulsed Microwave Processing of High-TC Superconducting Films. <i>Materials Research Society Symposia Proceedings</i> , 1992, 269, 187. | 0.1 | 0 |
| 144 | Electron Microscopy Study of Cubic Boron Nitride Thin Films Grown by Ion -Assisted Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 1993, 311, 373. | 0.1 | 0 |