# Sidney R Cohen

List of Publications by Year
in descending order



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|---|---|---|---|
| 157 papers | 8,818 citations | 44069 48 h-index | 46799 89 g-index |
| 158 all docs | 158 docs citations | 158 times ranked | 9010 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Measurement of carbon nanotubeâ€“polymer interfacial strength. Applied Physics Letters, 2003, 82, 4140-4142. | 3.3 | 498 |
| 2 | Detachment of nanotubes from a polymer matrix. Applied Physics Letters, 2002, 81, 3873-3875. | 3.3 | 358 |
| 3 | Spin Specific Electron Conduction through DNA Oligomers. Nano Letters, 2011, 11, 4652-4655. | 9.1 | 323 |
| 4 | Helicenesâ€”A New Class of Organic Spin Filter. Advanced Materials, 2016, 28, 1957-1962. | 21.0 | 319 |
| 5 | On the mechanical behavior of WS2 nanotubes under axial tension and compression. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 523-528. | 7.1 | 263 |
| 6 | Nanoelectrochemical Patterning of Monolayer Surfaces: Toward Spatially Defined Self-Assembly of Nanostructures. Advanced Materials, 1999, 11, 55-61. | 21.0 | 253 |
| 7 | Static and Dynamic Wetting Measurements of Single Carbon Nanotubes. Physical Review Letters, 2004, 92, 186103. | 7.8 | 240 |
| 8 | â€œConstructive Nanolithographyâ€: Inert Monolayers as Patternable Templates for In-Situ Nanofabrication of Metal-Semiconductor-Organic Surface Structuresâ€”A Generic Approach. Advanced Materials, 2000, 12, 725-731. | 21.0 | 228 |
| 9 | Interfacial fracture energy measurements for multi-walled carbon nanotubes pulled from a polymer matrix. Composites Science and Technology, 2004, 64, 2283-2289. | 7.8 | 222 |
| 10 | Constructive Nanolithography: Site-Defined Silver Self-Assembly on Nanoelectrochemically Patterned Monolayer Templates. Advanced Materials, 2000, 12, 424-429. | 21.0 | 186 |
| 11 | Force microscopy with a bidirectional capacitance sensor. Review of Scientific Instruments, 1990, 61, 2296-2308. | 1.3 | 179 |
| 12 | Metal Nanoparticles, Nanowires, and Contact Electrodes Self-Assembled on Patterned Monolayer Templatesâ€”A Bottom-up Chemical Approach. Advanced Materials, 2002, 14, 1036. | 21.0 | 178 |
| 13 | How Polycrystalline Devices Can Outperform Single-Crystal Ones: Thin Film CdTe/CdS Solar Cells. Advanced Materials, 2004, 16, 879-883. | 21.0 | 176 |
| 14 | Understanding the Beneficial Role of Grain Boundaries in Polycrystalline Solar Cells from Single-Grain-Boundary Scanning Probe Microscopy. Advanced Functional Materials, 2006, 16, 649-660. | 14.9 | 165 |
| 15 | Thermally induced disorder in organized organic monolayers on solid substrates. The Journal of Physical Chemistry, 1986, 90, 3054-3056. | 2.9 | 155 |
| 16 | Fracture Transitions at a Carbon-Nanotube/Polymer Interface. Advanced Materials, 2006, 18, 83-87. | 21.0 | 155 |
| 17 | A Secreted Disulfide Catalyst Controls Extracellular Matrix Composition and Function. Science, 2013, 341, 74-76. | 12.6 | 140 |
| 18 | Atomic scale friction of a diamond tip on diamond (100) and (111) surfaces. Journal of Applied Physics, 1993, 73, 163-167. | 2.5 | 136 |

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| 19 | Torsional electromechanical quantum oscillations in carbon nanotubes. Nature Nanotechnology, 2006, 1, 36-41. | 31.5 | 133 |
| 20 | WS2 nanotubes as tips in scanning probe microscopy. Applied Physics Letters, 1999, 75, 4025-4027. | 3.3 | 119 |
| 21 | Mechanical behavior of individual WS2 nanotubes. Journal of Materials Research, 2004, 19, 454-459. | 2.6 | 117 |
| 22 | Insights into the Structure and Domain Flexibility of Full-Length Pro-Matrix Metalloproteinase-9/Gelatinase B. Structure, 2007, 15, 1227-1236. | 3.3 | 113 |
| 23 | Sea Urchin Tooth Design: An â€œAllâ€Calciteâ€•Polycrystalline Reinforced Fiber Composite for Grinding Rocks. Advanced Materials, 2008, 20, 1555-1559. | 21.0 | 111 |
| 24 | A micropipette force probe suitable for nearâ€field scanning optical microscopy. Review of Scientific Instruments, 1992, 63, 4061-4065. | 1.3 | 102 |
| 25 | Intercalation of Inorganic Fullerene-like Structures Yields Photosensitive Films and New Tips for Scanning Probe Microscopy. Journal of the American Chemical Society, 1997, 119, 2693-2698. | 13.7 | 102 |
| 26 | Direct evidence for grain-boundary depletion in polycrystalline CdTe from nanoscale-resolved measurements. Applied Physics Letters, 2003, 82, 556-558. | 3.3 | 98 |
| 27 | Stochastic strength of nanotubes: An appraisal of available data. Composites Science and Technology, 2005, 65, 2380-2384. | 7.8 | 97 |
| 28 | Self-Assembly at the Airâ^'Water Interface. In-Situ Preparation of Thin Films of Metal Ion Grid Architectures. Journal of the American Chemical Society, 1998, 120, 4850-4860. | 13.7 | 95 |
| 29 | Dynamic nanoindentation by instrumented nanoindentation and force microscopy: a comparative review. Beilstein Journal of Nanotechnology, 2013, 4, 815-833. | 2.8 | 90 |
| 30 | Translational energy transfer from molecules and atoms to adsorbed organic monolayers of long-chain amphiphiles. Physical Review Letters, 1987, 58, 1208-1211. | 7.8 | 89 |
| 31 | Youngâ€™s modulus of peritubular and intertubular human dentin by nano-indentation tests. Journal of Structural Biology, 2011, 174, 23-30. | 2.8 | 86 |
| 32 | Room-temperature conductance spectroscopy of CdSe quantum dots using a modified scanning force microscope. Physical Review B, 1995, 52, R17017-R17020. | 3.2 | 84 |
| 33 | Unusually Large Youngâ€™s Moduli of Amino Acid Molecular Crystals. Angewandte Chemie - International Edition, 2015, 54, 13566-13570. | 13.8 | 83 |
| 34 | Nanomechanics of a Auâ€“Ir contact using a bidirectional atomic force microscope. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 3449-3454. | 2.1 | 77 |
| 35 | Branched Coordination Multilayers on Gold. Journal of the American Chemical Society, 2005, 127, 17877-17887. | 13.7 | 72 |
| 36 | Selfâ€Sharpening Mechanism of the Sea Urchin Tooth. Advanced Functional Materials, 2011, 21, 682-690. | 14.9 | 72 |

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| 37 | Direct Visualization of Protease Action on Collagen Triple Helical Structure. PLoS ONE, 2010, 5, e11043. | 2.5 | 70 |
| 38 | Structure dependent spin selectivity in electron transport through oligopeptides. Journal of Chemical Physics, 2017, 146, . | 3.0 | 69 |
| 39 | High-Resolution Lateral Differentiation Using a Macroscopic Probe:Â XPS of Organic Monolayers on Composite Auâ^'SiO2Surfaces. Journal of the American Chemical Society, 2000, 122, 4959-4962. | 13.7 | 68 |
| 40 | Sequence Dependence of Charge Transport Properties of DNA. Journal of Physical Chemistry B, 2006, 110, 8910-8913. | 2.6 | 63 |
| 41 | Temperature and Force Dependence of Nanoscale Electron Transport via the Cu Protein Azurin. ACS Nano, 2012, 6, 10816-10824. | 14.6 | 63 |
| 42 | The tribological behavior of type II textured MX2 (M=Mo, W; X=S, Se) films. Thin Solid Films, 1998, 324, 190-197. | 1.8 | 62 |
| 43 | Scanning tunneling microscopy study of WS2 nanotubes. Physical Chemistry Chemical Physics, 2002, 4, 2095-2098. | 2.8 | 61 |
| 44 | Electrical properties of short DNA oligomers characterized by conducting atomic force microscopy. Physical Chemistry Chemical Physics, 2004, 6, 4459. | 2.8 | 59 |
| 45 | Self-Assembly of Light-Harvesting Crystalline Nanosheets in Aqueous Media. ACS Nano, 2013, 7, 3547-3556. | 14.6 | 58 |
| 46 | External and internal wetting of carbon nanotubes with organic liquids. Physical Review B, 2005, 71, . | 3.2 | 57 |
| 47 | Characterization of Geoinspired and Synthetic Chrysotile Nanotubes by Atomic Force Microscopy and Transmission Electron Microscopy. Advanced Functional Materials, 2007, 17, 3332-3338. | 14.9 | 57 |
| 48 | Oriented Crystalline Monolayers and Bilayers of 2Ã—2 Silver(I) Grid Architectures at the Air-Solution Interface: Their Assembly and Crystal Structure Elucidation. Chemistry - A European Journal, 2000, 6, 725-734. | 3.3 | 55 |
| 49 | Multifunctional, micropipette based force cantilevers for scanned probe microscopy. Applied Physics Letters, 1994, 65, 648-650. | 3.3 | 50 |
| 50 | Crystalline Cyclic Peptide Nanotubes at Interfaces. Journal of the American Chemical Society, 1999, 121, 1186-1191. | 13.7 | 49 |
| 51 | Fullerene-Like (IF) Nb<sub>x</sub>Mo<sub>1</sub><sub>-</sub><sub>x</sub>S<sub>2</sub> Nanoparticles. Journal of the American Chemical Society, 2007, 129, 12549-12562. | 13.7 | 49 |
| 52 | Use of AFM in bio-related systems. Current Opinion in Colloid and Interface Science, 2008, 13, 316-325. | 7.4 | 47 |
| 53 | Nanometer-scale electronic and microstructural properties of grain boundaries in Cu(In,Ga)Se2. Thin Solid Films, 2011, 519, 7341-7346. | 1.8 | 46 |
| 54 | Self-Aggregation of .alpha.,.omega.-Alkanediols into 3-D Crystallites As Studied at Interfaces: The System of .alpha.,.omega.-Docosanediol. The Journal of Physical Chemistry, 1994, 98, 4970-4972. | 2.9 | 45 |

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| 55 | Nanocompression of individual multilayered polyhedral nanoparticles. Nanotechnology, 2010, 21, 365705. | 2.6 | 45 |
| 56 | 20S proteasomes secreted by the malaria parasite promote its growth. Nature Communications, 2021, 12, 1172. | 12.8 | 45 |
| 57 | Electronically active layers and interfaces in polycrystalline devices: Cross-section mapping of CdS/CdTe solar cells. Applied Physics Letters, 2003, 83, 4924-4926. | 3.3 | 43 |
| 58 | Metalâ€“Organic Microstructures: From Rectangular to Stellated and Interpenetrating Polyhedra. Journal of the American Chemical Society, 2015, 137, 226-231. | 13.7 | 43 |
| 59 | Simulation and correction of geometric distortions in scanning Kelvin probe microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1051-1055. | 2.1 | 42 |
| 60 | The kinetic isotope effect for carbon and oxygen in the reaction CO + OH. International Journal of Chemical Kinetics, 1980, 12, 935-948. | 1.6 | 41 |
| 61 | Oriented Crystalline Thin Films of Tetracosanedioic Acid and Its Metal Salts at the Air-Aqueous Solution Interface. Advanced Materials, 1998, 10, 117-121. | 21.0 | 40 |
| 62 | An international round-robin calibration protocol for nanoindentation measurements. Micron, 2012, 43, 215-222. | 2.2 | 40 |
| 63 | Growth of crystalline WSe2 and WS2 films on amorphous substrate by reactive (Van der Waals) rheotaxy. Solar Energy Materials and Solar Cells, 1996, 44, 457-470. | 6.2 | 39 |
| 64 | Nanoindentation of osteonal bone lamellae. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 9, 198-206. | 3.1 | 39 |
| 65 | Pyroelectricity in Highly Stressed Quasi-Amorphous Thin Films. Advanced Materials, 2003, 15, 1826-1828. | 21.0 | 38 |
| 66 | Dislocation structure and hardness of surface layers under friction of copper in different lubricant conditions. Acta Materialia, 2011, 59, 342-348. | 7.9 | 38 |
| 67 | Osteonal lamellae elementary units: Lamellar microstructure, curvature and mechanical properties. Acta Biomaterialia, 2013, 9, 5956-5962. | 8.3 | 38 |
| 68 | Novel poly(3-hydroxybutyrate) nanocomposites containing WS2 inorganic nanotubes with improved thermal, mechanical and tribological properties. Materials Chemistry and Physics, 2014, 147, 273-284. | 4.0 | 38 |
| 69 | Layer-by-Layer Assembly of Ordinary and Composite Coordination Multilayers. Langmuir, 2004, 20, 10727-10733. | 3.5 | 37 |
| 70 | The Role of Point Defects in the Mechanical Behavior of Doped Ceria Probed by Nanoindentation. Advanced Functional Materials, 2013, 23, 6076-6081. | 14.9 | 37 |
| 71 | Biological fabrication of cellulose fibers with tailored properties. Science, 2017, 357, 1118-1122. | 12.6 | 35 |
| 72 | Patterned Organosilane Monolayers as Lyophobicâ^'Lyophilic Guiding Templates in Surface Self-Assembly: Monolayer Self-Assembly versus Wetting-Driven Self-Assembly. Langmuir, 2009, 25, 13984-14001. | 3.5 | 34 |

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| 73 | Chiral and SHG-Active Metalâ€“Organic Frameworks Formed in Solution and on Surfaces: Uniformity, Morphology Control, Oriented Growth, and Postassembly Functionalization. Journal of the American Chemical Society, 2020, 142, 14210-14221. | 13.7 | 34 |
| 74 | Rotational and stateâ€resolved translational distributions of NO scattered from organized amphiphilic monolayers. Journal of Chemical Physics, 1988, 88, 2757-2763. | 3.0 | 33 |
| 75 | Microscopic Investigation of Shear in Multiwalled Nanotube Deformation. Journal of Physical Chemistry C, 2007, 111, 8432-8436. | 3.1 | 33 |
| 76 | Influence of Gd content on the room temperature mechanical properties of Gd-doped ceria. Scripta Materialia, 2012, 66, 155-158. | 5.2 | 33 |
| 77 | Gold Nanoparticles as Surface Defect Probes for WS<sub>2</sub> Nanostructures. Journal of Physical Chemistry Letters, 2010, 1, 540-543. | 4.6 | 30 |
| 78 | Effect of the Substrate Morphology on the Structure of Adsorbed Ice. Journal of Physical Chemistry B, 1997, 101, 5172-5176. | 2.6 | 29 |
| 79 | In situ SFM study of 2D-polyaniline surface-confined enzymatic polymerization. Journal of Materials Chemistry, 2006, 16, 4044. | 6.7 | 29 |
| 80 | Atomic Force Microscopy: Opening the Teaching Laboratory to the Nanoworld. Journal of Chemical Education, 2010, 87, 1290-1293. | 2.3 | 29 |
| 81 | Solid-State Electron Transport via the Protein Azurin is Temperature-Independent Down to 4 K. Journal of Physical Chemistry Letters, 2020, 11, 144-151. | 4.6 | 28 |
| 82 | Laboratory Insights into the Diel Cycle of Optical and Chemical Transformations of Biomass Burning Brown Carbon Aerosols. Environmental Science & Technology, 2020, 54, 11827-11837. | 10.0 | 28 |
| 83 | Alleviating fatigue and failure of NiTi endodontic files by a coating containing inorganic fullerene-like WS<sub>2</sub> nanoparticles. Journal of Materials Research, 2011, 26, 1234-1242. | 2.6 | 26 |
| 84 | Microanalysis surface studies and photoemission properties of CsI photocathodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 367, 337-341. | 1.6 | 25 |
| 85 | Inhibition of self-aggregation of ?,?-docosanediol into 3D Crystallites by ?Tailor-Made? amphiphilic auxiliaries. Advanced Materials, 1994, 6, 956-959. | 21.0 | 24 |
| 86 | Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 20, 153-160. | 2.4 | 24 |
| 87 | Effect of chemical treatments on nm-scale electrical characteristics of polycrystalline thin film Cu(In,Ga)Se2 surfaces. Solar Energy Materials and Solar Cells, 2014, 120, 500-505. | 6.2 | 24 |
| 88 | Nanoscale Electron Transport and Photodynamics Enhancement in Lipid-Depleted Bacteriorhodopsin Monomers. ACS Nano, 2014, 8, 7714-7722. | 14.6 | 24 |
| 89 | Transistor configuration yields energy level control in protein-based junctions. Nanoscale, 2018, 10, 21712-21720. | 5.6 | 24 |
| 90 | Ga Composition Dictates Macroscopic Photovoltaic and Nanoscopic Electrical Characteristics of Cu(In $_{1-X}$Ga$_X$)Se $_2$ Thin Films via Grain-Boundary-Type Inversion. IEEE Journal of Photovoltaics, 2012, 2, 191-195. | 2.5 | 23 |

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| 91 | Friction, wear and structure of Cu samples in the lubricated steady friction state. Tribology International, 2012, 46, 154-160. | 5.9 | 22 |
| 92 | Nanotribology of novel metal dichalcogenides. Applied Surface Science, 1999, 144-145, 603-607. | 6.1 | 21 |
| 93 | Charge Transfer between a Gold Substrate and CdS Nanoparticles Assembled in Hybrid Organicâ"Inorganic Films. Journal of Physical Chemistry B, 2003, 107, 4245-4252. | 2.6 | 21 |
| 94 | Electroâ€chemomechanical Contribution to Mechanical Actuation in Gdâ€Doped Ceria Membranes. Advanced Materials Interfaces, 2019, 6, 1801592. | 3.7 | 20 |
| 95 | Nanoscale Shear and Indentation Measurements in Transcrystalline Î±-Isotactic Polypropylene. Macromolecules, 2001, 34, 1252-1257. | 4.8 | 18 |
| 96 | Direct monitoring of opto-mechanical switching of self-assembled monolayer films containing the azobenzene group. Beilstein Journal of Nanotechnology, 2011, 2, 834-844. | 2.8 | 18 |
| 97 | Radial compression studies of WS2 nanotubes in the elastic regime. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, . | 1.2 | 18 |
| 98 | The role of convolutional neural networks in scanning probe microscopy: a review. Beilstein Journal of Nanotechnology, 2021, 12, 878-901. | 2.8 | 18 |
| 99 | Malaria parasites release vesicle subpopulations with signatures of different destinations. EMBO Reports, 2022, 23, . | 4.5 | 18 |
| 100 | Stepped Polymer Morphology Induced by a Carbon Nanotube Tip. Nano Letters, 2004, 4, 1439-1443. | 9.1 | 17 |
| 101 | Laser-induced aligned self-assembly on water surfaces. Journal of Chemical Physics, 2009, 130, 144704. | 3.0 | 17 |
| 102 | An evaluation of the use of the atomic force microscope for studies in nanomechanics. Ultramicroscopy, 1992, 42-44, 66-72. | 1.9 | 16 |
| 103 | Protein nanofibril design via manipulation of hydrogen bonds. Communications Chemistry, 2021, 4, . | 4.5 | 16 |
| 104 | Anisotropic nanoindentation of transcrystalline polypropylene by scanning force microscope using blade-like tips. Applied Physics Letters, 1999, 74, 2966-2968. | 3.3 | 15 |
| 105 | Photoinduced Deprotection and ZnO Patterning of Hydroxyl-Terminated Siloxane-Based Monolayers. Journal of Physical Chemistry B, 2005, 109, 14144-14153. | 2.6 | 15 |
| 106 | Oxygen vacancy ordering and viscoelastic mechanical properties of doped ceria ceramics. Scripta Materialia, 2019, 163, 19-23. | 5.2 | 15 |
| 107 | Spontaneous Assembly in Organic Thin Films Spread on Aqueous Subphase: A Scanning Force Microscope (SFM) Study. Israel Journal of Chemistry, 1996, 36, 97-110. | 2.3 | 14 |
| 108 | A Composite GoldSilicon Oxide Surface for Mesoscopic Patterning. Journal of Physical Chemistry B, 2003, 107, 5540-5546. | 2.6 | 14 |

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| 109 | AFM Investigation of Mechanical Properties of Dentin. Israel Journal of Chemistry, 2008, 48, 65-72. | 2.3 | 14 |
| 110 | Experimental, finite element, and density-functional theory study of inorganic nanotube compression. Applied Physics Letters, 2011, 98, 081908. | 3.3 | 14 |
| 111 | Diameter-dependent wetting of tungsten disulfide nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13624-13629. | 7.1 | 14 |
| 112 | Role of fly ash in catalytic oxidation of sulfur(IV) slurries. Environmental Science & Technology, 1981, 15, 1498-1502. | 10.0 | 13 |
| 113 | Fabrication of sub-Î¼m bipolar transistor structures by scanning probe microscopy. Applied Physics Letters, 1998, 73, 1868-1870. | 3.3 | 13 |
| 114 | Allâ€Solidâ€State Electroâ€Chemoâ€Mechanical Actuator Operating at Room Temperature. Advanced Functional Materials, 2021, 31, 2006712. | 14.9 | 13 |
| 115 | Electronic effects of ion mobility in semiconductors: Mixed electronicâ€“ionic behavior and device creation in Si:Li. Journal of Applied Physics, 1996, 80, 2749-2762. | 2.5 | 12 |
| 116 | Kinetics of interaction of HIV fusion protein (gp41) with lipid membranes studied by real-time AFM imaging. Ultramicroscopy, 2010, 110, 694-700. | 1.9 | 12 |
| 117 | Selfâ€assembled twoâ€dimensional porous network in aqueous solution based on perylene diimide phenylacetylene oligomer. Polymers for Advanced Technologies, 2011, 22, 133-138. | 3.2 | 12 |
| 118 | Electrodeposition of CdS quantum dots and their optoelectronic characterization by photoelectrochemical and scanning probe spectroscopies. Superlattices and Microstructures, 1999, 25, 601-613. | 3.1 | 11 |
| 119 | Non-crystalline pyroelectric BaTiO3 thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 167-169. | 3.5 | 11 |
| 120 | Adsorptionâ€Induced Magnetization of PbS Selfâ€Assembled Nanoparticles on GaAs. Advanced Materials, 2008, 20, 2552-2555. | 21.0 | 11 |
| 121 | Nanoindentation measurements and mechanical testing of as-soldered and aged Snâ€“0.7Cu lead-free miniature joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4014-4020. | 5.6 | 11 |
| 122 | Interfacial halogen bonding probed using force spectroscopy. Chemical Communications, 2013, 49, 3531. | 4.1 | 11 |
| 123 | A novel experimental method for the local mechanical testing of human coronal dentin. Dental Materials, 2010, 26, 179-184. | 3.5 | 10 |
| 124 | Chemical compositional non-uniformity and its effects on CIGS solar cell performance at the nm-scale. Solar Energy Materials and Solar Cells, 2012, 98, 78-82. | 6.2 | 10 |
| 125 | Microstructure and nanohardness of Ag and Ni under friction in boundary lubrication. Wear, 2018, 404-405, 62-70. | 3.1 | 10 |
| 126 | CHROMIUM-RICH COATINGS WITH WS<sub>2</sub> NANOPARTICLES CONTAINING FULLERENE-LIKE STRUCTURE. Nano, 2011, 06, 313-324. | 1.0 | 9 |

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| 127 | Semiconductor quantum dotâ€“inorganic nanotube hybrids. Physical Chemistry Chemical Physics, 2012, 14, 4271. | 2.8 | 9 |
| 128 | Decoration of Inorganic Nanostructures by Metallic Nanoparticles to Induce Fluorescence, Enhance Solubility, and Tune Band Gap. Journal of Physical Chemistry C, 2018, 122, 6748-6759. | 3.1 | 9 |
| 129 | Trivalent Dopant Size Influences Electrostrictive Strain in Ceria Solid Solutions. ACS Applied Materials & Interfaces, 2021, 13, 20269-20276. | 8.0 | 9 |
| 130 | Dihedral Angle at Solid/Liquid-Polymer Interfaces Determined by Atomic Force Microscopy. Langmuir, 1997, 13, 6360-6362. | 3.5 | 7 |
| 131 | Nanomechanics of Biomaterials â€“ from Cells to Shells. Israel Journal of Chemistry, 2020, 60, 1171-1184. | 2.3 | 7 |
| 132 | Energy distribution between spin-orbit states in NO scattered from organized amphiphilic monolayers. Chemical Physics Letters, 1988, 152, 269-273. | 2.6 | 6 |
| 133 | Scanning tunneling microscopy of single dye molecules on GaAs(110) surfaces. Surface Science, 2005, 583, 297-309. | 1.9 | 6 |
| 134 | Zirconium vacuum arc operation in a mixture of Ar and O2 gases: Ar effect on the arcing characteristics, deposition rate and coating properties. Surface and Coatings Technology, 2012, 206, 4417-4424. | 4.8 | 6 |
| 135 | Oxide Surfaces with Tunable Stiffness. Journal of Physical Chemistry C, 2013, 117, 22232-22239. | 3.1 | 6 |
| 136 | A nanometric cushion for enhancing scratch and wear resistance of hard films. Beilstein Journal of Nanotechnology, 2014, 5, 1005-1015. | 2.8 | 6 |
| 137 | The gizzard plates in the Cephalaspidean gastropod Philine quadripartita: Analysis of structure and function. Quaternary International, 2015, 390, 4-14. | 1.5 | 6 |
| 138 | Investigation of no scattering from organic monolayers: Spin-orbit state and vibrational state population distributions. Chemical Physics, 1989, 134, 119-126. | 1.9 | 5 |
| 139 | Tubular Hybrids: A Nanoparticleâ€”Molecular Network. Langmuir, 2018, 34, 2464-2470. | 3.5 | 5 |
| 140 | Self-assembly at solid surfaces. Beilstein Journal of Nanotechnology, 2011, 2, 824-825. | 2.8 | 4 |
| 141 | Engineered-membranes: A novel concept for clustering of native lipid bilayers. Journal of Colloid and Interface Science, 2012, 388, 300-305. | 9.4 | 4 |
| 142 | Poly(L-lactic acid) Reinforced with Hydroxyapatite and Tungsten Disulfide Nanotubes. Polymers, 2021, 13, 3851. | 4.5 | 4 |
| 143 | Measurement of Micromechanical Properties Using Atomic Force Microscope with Capacitative. Materials Research Society Symposia Proceedings, 1989, 153, 307. | 0.1 | 3 |
| 144 | Insights on uniaxial compression of WS2 inorganic fullerenes: A finite element study. Journal of Materials Research, 2012, 27, 161-166. | 2.6 | 3 |

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| 145 | Doping of Fullereneâ€Like MoS 2 Nanoparticles with Minute Amounts of Niobium. Particle and Particle Systems Characterization, 2018, 35, 1700165. | 2.3 | 3 |
| 146 | Metallic Nanocrystal Ripening on Inorganic Surfaces. ACS Omega, 2018, 3, 6533-6539. | 3.5 | 3 |
| 147 | Control over size, shape, and photonics of self-assembled organic nanocrystals. Beilstein Journal of Organic Chemistry, 2021, 17, 42-51. | 2.2 | 3 |
| 148 | The effect of adsorbed oxygen on the surface potential of n-GaAs(110). Journal of Chemical Physics, 2005, 123, 064705. | 3.0 | 2 |
| 149 | New Deposition Technique for Metal Films Containing Inorganic Fullereneâ€Like (IF) Nanoparticles. ChemPhysChem, 2013, 14, 2125-2131. | 2.1 | 2 |
| 150 | Noncovalent Bonding Caught in Action: From Amorphous to Cocrystalline Molecular Thin Films. ACS Nano, 2021, 15, 14643-14652. | 14.6 | 2 |
| 151 | Compressive Response of Dentin Micro-Pillars. Solid Mechanics and Its Applications, 2009, , 187-197. | 0.2 | 2 |
| 152 | Crystalline Corrugation in Multilayer Films on Aqueous Subphases. Helvetica Chimica Acta, 2003, 86, 2711-2725. | 1.6 | 1 |
| 153 | Carbon nanotube surface chemistry and its effects on interfacial nanomechanics. Materials Research Society Symposia Proceedings, 2004, 858, 260. | 0.1 | 1 |
| 154 | Surface characteristics and wetting behavior of carbon nanotubes. Materials Research Society Symposia Proceedings, 2004, 858, 209. | 0.1 | 1 |
| 155 | Electron Flow Through Molecular Structures. , 2007, , 715-745. | | 1 |
| 156 | SPM Probing of Interfacial Strengths of Individual Carbon Nanotubes in a Polymer Matrix. AIP Conference Proceedings, 2003, , . | 0.4 | 0 |
| 157 | Investigating Individual Carbon Nanotube/Polymer Interfaces with Scanning Probe Microscopy. Nanoscience and Technology, 2007, , 287-323. | 1.5 | 0 |