Sidney R Cohen

List of Publications by Year in Descending Order

155 papers	7,526 citations	46 h-index	83 g-index
158 ext. papers	8,158 ext. citations	7.8 avg, IF	5.67 L-index

#	Paper	IF	Citations
155	Trivalent Dopant Size Influences Electrostrictive Strain in Ceria Solid Solutions. *ACS Applied Materials & Interfaces*, **2021**, 13, 20269-20276	9.5	3
154	Protein nanofibril design via manipulation of hydrogen bonds. *Communications Chemistry*, **2021**, 4,	6.3	5
153	All-Solid-State Electro-Chemo-Mechanical Actuator Operating at Room Temperature. *Advanced Functional Materials*, **2021**, 31, 2006712	15.6	4
152	Control over size, shape, and photonics of self-assembled organic nanocrystals. *Beilstein Journal of Organic Chemistry*, **2021**, 17, 42-51	2.5	1
151	20S proteasomes secreted by the malaria parasite promote its growth. *Nature Communications*, **2021**, 12, 1172	17.4	11
150	The role of convolutional neural networks in scanning probe microscopy: a review. *Beilstein Journal of Nanotechnology*, **2021**, 12, 878-901	3	4
149	Noncovalent Bonding Caught in Action: From Amorphous to Cocrystalline Molecular Thin Films. *ACS Nano*, **2021**, 15, 14643-14652	16.7	
148	Chiral and SHG-Active Metal-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	16.4	11
147	Solid-State Electron Transport via the Protein Azurin is Temperature-Independent Down to 4 K. *Journal of Physical Chemistry Letters*, **2020**, 11, 144-151	6.4	17
146	Nanomechanics of Biomaterials from Cells to Shells. *Israel Journal of Chemistry*, **2020**, 60, 1171-1184	3.4	4
145	Laboratory Insights into the Diel Cycle of Optical and Chemical Transformations of Biomass Burning Brown Carbon Aerosols. *Environmental Science & Technology*, **2020**, 54, 11827-11837	10.3	16
144	Oxygen vacancy ordering and viscoelastic mechanical properties of doped ceria ceramics. *Scripta Materialia*, **2019**, 163, 19-23	5.6	12
143	Electro-chemomechanical Contribution to Mechanical Actuation in Gd-Doped Ceria Membranes. *Advanced Materials Interfaces*, **2019**, 6, 1801592	4.6	15
142	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	3.8	6
141	Tubular Hybrids: A Nanoparticle-Molecular Network. *Langmuir*, **2018**, 34, 2464-2470	4	4
140	Microstructure and nanohardness of Ag and Ni under friction in boundary lubrication. *Wear*, **2018**, 404-405, 62-70	3.5	7
139	Doping of Fullerene-Like MoS2 Nanoparticles with Minute Amounts of Niobium. *Particle and Particle Systems Characterization*, **2018**, 35, 1700165	3.1	1

138	Transistor configuration yields energy level control in protein-based junctions. *Nanoscale*, **2018**, 10, 21712-21720	7.7	19
137	Metallic Nanocrystal Ripening on Inorganic Surfaces. *ACS Omega*, **2018**, 3, 6533-6539	3.9	1
136	Structure dependent spin selectivity in electron transport through oligopeptides. *Journal of Chemical Physics*, **2017**, 146, 092302	3.9	42
135	Biological fabrication of cellulose fibers with tailored properties. *Science*, **2017**, 357, 1118-1122	33.3	23
134	Diameter-dependent wetting of tungsten disulfide nanotubes. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13624-13629	11.5	9
133	Helicenes--A New Class of Organic Spin Filter. *Advanced Materials*, **2016**, 28, 1957-62	24	185
132	Metal-organic microstructures: from rectangular to stellated and interpenetrating polyhedra. *Journal of the American Chemical Society*, **2015**, 137, 226-31	16.4	40
131	Unusually Large Young's Moduli of Amino Acid Molecular Crystals. *Angewandte Chemie - International Edition*, **2015**, 54, 13566-70	16.4	54
130	Unusually Large Young's Moduli of Amino Acid Molecular Crystals. *Angewandte Chemie*, **2015**, 127, 13770-13774	3.6	9
129	The gizzard plates in the Cephalaspidean gastropod Philine quadripartita: Analysis of structure and function. *Quaternary International*, **2015**, 390, 4-14	2	1
128	Nanoscale electron transport and photodynamics enhancement in lipid-depleted bacteriorhodopsin monomers. *ACS Nano*, **2014**, 8, 7714-22	16.7	21
127	A nanometric cushion for enhancing scratch and wear resistance of hard films. *Beilstein Journal of Nanotechnology*, **2014**, 5, 1005-15	3	6
126	Novel poly(3-hydroxybutyrate) nanocomposites containing WS2 inorganic nanotubes with improved thermal, mechanical and tribological properties. *Materials Chemistry and Physics*, **2014**, 147, 273-284	4.4	31
125	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	6.4	20
124	The Role of Point Defects in the Mechanical Behavior of Doped Ceria Probed by Nanoindentation. *Advanced Functional Materials*, **2013**, 23, 6076-6081	15.6	31
123	Self-assembly of light-harvesting crystalline nanosheets in aqueous media. *ACS Nano*, **2013**, 7, 3547-56	16.7	49
122	Osteonal lamellae elementary units: lamellar microstructure, curvature and mechanical properties. *Acta Biomaterialia*, **2013**, 9, 5956-62	10.8	31
121	Interfacial halogen bonding probed using force spectroscopy. *Chemical Communications*, **2013**, 49, 3531-3	6.8	11

120	Oxide Surfaces with Tunable Stiffness. *Journal of Physical Chemistry C*, **2013**, 117, 22232-22239	3.8	5
119	A secreted disulfide catalyst controls extracellular matrix composition and function. *Science*, **2013**, 341, 74-6	33.3	109
118	New deposition technique for metal films containing inorganic fullerene-like (IF) nanoparticles. *ChemPhysChem*, **2013**, 14, 2125-31	3.2	1
117	Dynamic nanoindentation by instrumented nanoindentation and force microscopy: a comparative review. *Beilstein Journal of Nanotechnology*, **2013**, 4, 815-33	3	69
116	Influence of Gd content on the room temperature mechanical properties of Gd-doped ceria. *Scripta Materialia*, **2012**, 66, 155-158	5.6	31
115	An international round-robin calibration protocol for nanoindentation measurements. *Micron*, **2012** , 43, 215-22	2.3	35
114	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	6.4	10
113	Friction, wear and structure of Cu samples in the lubricated steady friction state. *Tribology International*, **2012**, 46, 154-160	4.9	21
112	Nanoindentation of osteonal bone lamellae. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 9, 198-206	4.1	33
111	Engineered-membranes: a novel concept for clustering of native lipid bilayers. *Journal of Colloid and Interface Science*, **2012**, 388, 300-5	9.3	3
110	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	3.7	18
109	Semiconductor quantum dot-inorganic nanotube hybrids. *Physical Chemistry Chemical Physics*, **2012**, 14, 4271-5	3.6	9
108	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	4.4	2
107	Temperature and force dependence of nanoscale electron transport via the Cu protein azurin. *ACS Nano*, **2012**, 6, 10816-24	16.7	54
106	Insights on uniaxial compression of WS2 inorganic fullerenes: A finite element study. *Journal of Materials Research*, **2012**, 27, 161-166	2.5	3
105	Spin specific electron conduction through DNA oligomers. *Nano Letters*, **2011**, 11, 4652-5	11.5	222
104	Young's modulus of peritubular and intertubular human dentin by nano-indentation tests. *Journal of Structural Biology*, **2011**, 174, 23-30	3.4	67
103	Experimental, finite element, and density-functional theory study of inorganic nanotube compression. *Applied Physics Letters*, **2011**, 98, 081908	3.4	12

102	Direct monitoring of opto-mechanical switching of self-assembled monolayer films containing the azobenzene group. *Beilstein Journal of Nanotechnology*, **2011**, 2, 834-44	3	16
101	Self-assembly at solid surfaces. *Beilstein Journal of Nanotechnology*, **2011**, 2, 824-5	3	3
100	Nanometer-scale electronic and microstructural properties of grain boundaries in Cu(In,Ga)Se2. *Thin Solid Films*, **2011**, 519, 7341-7346	2.2	42
99	Self-assembled two-dimensional porous network in aqueous solution based on perylene diimide phenylacetylene oligomer. *Polymers for Advanced Technologies*, **2011**, 22, 133-138	3.2	12
98	Self-Sharpening Mechanism of the Sea Urchin Tooth. *Advanced Functional Materials*, **2011**, 21, 682-690	15.6	63
97	Dislocation structure and hardness of surface layers under friction of copper in different lubricant conditions. *Acta Materialia*, **2011**, 59, 342-348	8.4	36
96	Radial compression studies of WS2 nanotubes in the elastic regimea). *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 021009	1.3	17
95	Alleviating fatigue and failure of NiTi endodontic files by a coating containing inorganic fullerene-like WS2 nanoparticles. *Journal of Materials Research*, **2011**, 26, 1234-1242	2.5	23
94	CHROMIUM-RICH COATINGS WITH WS2 NANOPARTICLES CONTAINING FULLERENE-LIKE STRUCTURE. *Nano*, **2011**, 06, 313-324	1.1	9
93	Nanocompression of individual multilayered polyhedral nanoparticles. *Nanotechnology*, **2010**, 21, 365705	3.4	43
92	Atomic Force Microscopy: Opening the Teaching Laboratory to the Nanoworld. *Journal of Chemical Education*, **2010**, 87, 1290-1293	2.4	24
91	Gold Nanoparticles as Surface Defect Probes for WS2 Nanostructures. *Journal of Physical Chemistry Letters*, **2010**, 1, 540-543	6.4	28
90	Kinetics of interaction of HIV fusion protein (gp41) with lipid membranes studied by real-time AFM imaging. *Ultramicroscopy*, **2010**, 110, 694-700	3.1	12
89	A novel experimental method for the local mechanical testing of human coronal dentin. *Dental Materials*, **2010**, 26, 179-84	5.7	9
88	Nanoindentation measurements and mechanical testing of as-soldered and aged Sn□.7Cu lead-free miniature joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 4014-4020	5.3	11
87	Direct visualization of protease action on collagen triple helical structure. *PLoS ONE*, **2010**, 5, e11043	3.7	59
86	Laser-induced aligned self-assembly on water surfaces. *Journal of Chemical Physics*, **2009**, 130, 144704	3.9	16
85	Patterned organosilane monolayers as lyophobic-lyophilic guiding templates in surface self-assembly: monolayer self-assembly versus wetting-driven self-assembly. *Langmuir*, **2009**, 25, 13984-14001	4	33

84	Compressive Response of Dentin Micro-Pillars. *Solid Mechanics and Its Applications*, **2009**, 187-197	0.4	1
83	AFM Investigation of Mechanical Properties of Dentin. *Israel Journal of Chemistry*, **2008**, 48, 65-72	3.4	8
82	Sea Urchin Tooth Design: An All-Calcite Polycrystalline Reinforced Fiber Composite for Grinding Rocks. *Advanced Materials*, **2008**, 20, 1555-1559	24	98
81	Adsorption-Induced Magnetization of PbS Self-Assembled Nanoparticles on GaAs. *Advanced Materials*, **2008**, 20, 2552-2555	24	8
80	Use of AFM in bio-related systems. *Current Opinion in Colloid and Interface Science*, **2008**, 13, 316-325	7.6	39
79	Microscopic Investigation of Shear in Multiwalled Nanotube Deformation. *Journal of Physical Chemistry C*, **2007**, 111, 8432-8436	3.8	29
78	Fullerene-like (IF) Nb(x)Mo(1-x)S2 nanoparticles. *Journal of the American Chemical Society*, **2007**, 129, 12549-62	16.4	45
77	Characterization of Geoinspired and Synthetic Chrysotile Nanotubes by Atomic Force Microscopy and Transmission Electron Microscopy. *Advanced Functional Materials*, **2007**, 17, 3332-3338	15.6	46
76	Insights into the structure and domain flexibility of full-length pro-matrix metalloproteinase-9/gelatinase B. *Structure*, **2007**, 15, 1227-36	5.2	103
75	Investigating Individual Carbon Nanotube/Polymer Interfaces with Scanning Probe Microscopy. *Nanoscience and Technology*, **2007**, 287-323	0.6	
74	Electron Flow Through Molecular Structures **2007**, 715-745		1
73	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	15.6	144
72	Fracture Transitions at a Carbon-Nanotube/Polymer Interface. *Advanced Materials*, **2006**, 18, 83-87	24	140
71	In situ SFM study of 2D-polyaniline surface-confined enzymatic polymerization. *Journal of Materials Chemistry*, **2006**, 16, 4044		27
70	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, 523-8	11.5	233
69	Sequence dependence of charge transport properties of DNA. *Journal of Physical Chemistry B*, **2006** , 110, 8910-3	3.4	58
68	Torsional electromechanical quantum oscillations in carbon nanotubes. *Nature Nanotechnology*, **2006**, 1, 36-41	28.7	121
67	Branched coordination multilayers on gold. *Journal of the American Chemical Society*, **2005**, 127, 17877-87	16.4	69

66	Photoinduced deprotection and ZnO patterning of hydroxyl-terminated siloxane-based monolayers. *Journal of Physical Chemistry B*, **2005**, 109, 14144-53	3.4	14
65	External and internal wetting of carbon nanotubes with organic liquids. *Physical Review B*, **2005**, 71,	3.3	50
64	Scanning tunneling microscopy of single dye molecules on GaAs(110) surfaces. *Surface Science*, **2005**, 583, 297-309	1.8	5
63	Stochastic strength of nanotubes: An appraisal of available data. *Composites Science and Technology*, **2005**, 65, 2380-2384	8.6	88
62	The effect of adsorbed oxygen on the surface potential of n-GaAs(110). *Journal of Chemical Physics*, **2005**, 123, 64705	3.9	2
61	Carbon nanotube surface chemistry and its effects on interfacial nanomechanics. *Materials Research Society Symposia Proceedings*, **2004**, 858, 260		1
60	Surface characteristics and wetting behavior of carbon nanotubes. *Materials Research Society Symposia Proceedings*, **2004**, 858, 209		1
59	Mechanical behavior of individual WS2 nanotubes. *Journal of Materials Research*, **2004**, 19, 454-459	2.5	102
58	How Polycrystalline Devices Can Outperform Single-Crystal Ones: Thin Film CdTe/CdS Solar Cells. *Advanced Materials*, **2004**, 16, 879-883	24	152
57	Non-crystalline pyroelectric BaTiO3 thin films. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2004**, 109, 167-169	3.1	11
56	Interfacial fracture energy measurements for multi-walled carbon nanotubes pulled from a polymer matrix. *Composites Science and Technology*, **2004**, 64, 2283-2289	8.6	201
55	Electrical properties of short DNA oligomers characterized by conducting atomic force microscopy. *Physical Chemistry Chemical Physics*, **2004**, 6, 4459	3.6	54
54	Stepped Polymer Morphology Induced by a Carbon Nanotube Tip. *Nano Letters*, **2004**, 4, 1439-1443	11.5	17
53	Layer-by-layer assembly of ordinary and composite coordination multilayers. *Langmuir*, **2004**, 20, 10727-33	4	36
52	Static and dynamic wetting measurements of single carbon nanotubes. *Physical Review Letters*, **2004**, 92, 186103	7.4	224
51	Crystalline Corrugation in Multilayer Films on Aqueous Subphases. *Helvetica Chimica Acta*, **2003**, 86, 2711-27251		
50	Pyroelectricity in Highly Stressed Quasi-Amorphous Thin Films. *Advanced Materials*, **2003**, 15, 1826-1828	24	36
49	Charge Transfer between a Gold Substrate and CdS Nanoparticles Assembled in Hybrid Organic–Inorganic Films. *Journal of Physical Chemistry B*, **2003**, 107, 4245-4252	3.4	19

48	A Composite GoldSilicon Oxide Surface for Mesoscopic Patterning. *Journal of Physical Chemistry B*, **2003**, 107, 5540-5546	3.4	11
47	Measurement of carbon nanotube□polymer interfacial strength. *Applied Physics Letters*, **2003**, 82, 4140-4142	3.4	456
46	Direct evidence for grain-boundary depletion in polycrystalline CdTe from nanoscale-resolved measurements. *Applied Physics Letters*, **2003**, 82, 556-558	3.4	88
45	Electronically active layers and interfaces in polycrystalline devices: Cross-section mapping of CdS/CdTe solar cells. *Applied Physics Letters*, **2003**, 83, 4924-4926	3.4	38
44	Metal Nanoparticles, Nanowires, and Contact Electrodes Self-Assembled on Patterned Monolayer Templates□A Bottom-up Chemical Approach. *Advanced Materials*, **2002**, 14, 1036	24	167
43	Scanning tunneling microscopy study of WS2 nanotubes. *Physical Chemistry Chemical Physics*, **2002**, 4, 2095-2098	3.6	54
42	Detachment of nanotubes from a polymer matrix. *Applied Physics Letters*, **2002**, 81, 3873-3875	3.4	323
41	Preparation and Characterization of CdTe Nanoparticles in Zirconia Films Prepared by the Sol Gel Method. *Journal of Sol-Gel Science and Technology*, **2001**, 20, 153-160	2.3	19
40	Nanoscale Shear and Indentation Measurements in Transcrystalline □sotactic Polypropylene. *Macromolecules*, **2001**, 34, 1252-1257	5.5	15
39	Oriented crystalline monolayers and bilayers of 2 x 2 silver(I) grid architectures at the air-solution interface: their assembly and crystal structure elucidation. *Chemistry - A European Journal*, **2000**, 6, 725-734	4.8	52
38	Constructive Nanolithography: Site-Defined Silver Self-Assembly on Nanoelectrochemically Patterned Monolayer Templates. *Advanced Materials*, **2000**, 12, 424-429	24	176
37	□onstructive Nanolithography□Inert Monolayers as Patternable Templates for In-Situ Nanofabrication of Metal□Semiconductor□Organic Surface Structures□A Generic Approach. *Advanced Materials*, **2000**, 12, 725-731	24	215
36	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	2.9	40
35	High-Resolution Lateral Differentiation Using a Macroscopic Probe:□XPS of Organic Monolayers on Composite Au□SiO2Surfaces. *Journal of the American Chemical Society*, **2000**, 122, 4959-4962	16.4	63
34	Anisotropic nanoindentation of transcrystalline polypropylene by scanning force microscope using blade-like tips. *Applied Physics Letters*, **1999**, 74, 2966-2968	3.4	10
33	Nanotribology of novel metal dichalcogenides. *Applied Surface Science*, **1999**, 144-145, 603-607	6.7	16
32	Electrodeposition of CdS quantum dots and their optoelectronic characterization by photoelectrochemical and scanning probe spectroscopies. *Superlattices and Microstructures*, **1999**, 25, 601-613	2.8	8
31	Nanoelectrochemical Patterning of Monolayer Surfaces: Toward Spatially Defined Self-Assembly of Nanostructures. *Advanced Materials*, **1999**, 11, 55-61	24	233

30	WS2 nanotubes as tips in scanning probe microscopy. *Applied Physics Letters*, **1999**, 75, 4025-4027	3.4	104
29	Crystalline Cyclic Peptide Nanotubes at Interfaces. *Journal of the American Chemical Society*, **1999**, 121, 1186-1191	16.4	45
28	Oriented Crystalline Thin Films of Tetracosanedioic Acid and Its Metal Salts at the Air□Aqueous Solution Interface. *Advanced Materials*, **1998**, 10, 117-121	24	39
27	The tribological behavior of type II textured MX2 (M=Mo, W; X=S, Se) films. *Thin Solid Films*, **1998**, 324, 190-197	2.2	57
26	Self-Assembly at the Air□Water Interface. In-Situ Preparation of Thin Films of Metal Ion Grid Architectures. *Journal of the American Chemical Society*, **1998**, 120, 4850-4860	16.4	89
25	Fabrication of sub-□n bipolar transistor structures by scanning probe microscopy. *Applied Physics Letters*, **1998**, 73, 1868-1870	3.4	9
24	Dihedral Angle at Solid/Liquid-Polymer Interfaces Determined by Atomic Force Microscopy. *Langmuir*, **1997**, 13, 6360-6362	4	6
23	Effect of the Substrate Morphology on the Structure of Adsorbed Ice. *Journal of Physical Chemistry B*, **1997**, 101, 5172-5176	3.4	25
22	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	16.4	85
21	Spontaneous Assembly in Organic Thin Films Spread on Aqueous Subphase: A Scanning Force Microscope (SFM) Study. *Israel Journal of Chemistry*, **1996**, 36, 97-110	3.4	14
20	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	6.4	37
19	Electronic effects of ion mobility in semiconductors: Mixed electronic□onic behavior and device creation in Si:Li. *Journal of Applied Physics*, **1996**, 80, 2749-2762	2.5	11
18	Room-temperature conductance spectroscopy of CdSe quantum dots using a modified scanning force microscope. *Physical Review B*, **1995**, 52, 17017-17020	3.3	75
17	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	1.2	20
16	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		43
15	Multifunctional, micropipette based force cantilevers for scanned probe microscopy. *Applied Physics Letters*, **1994**, 65, 648-650	3.4	40
14	Inhibition of self-aggregation of #docosanediol into 3D Crystallites by □ailor-Made□amphiphilic auxiliaries. *Advanced Materials*, **1994**, 6, 956-959	24	23
13	Atomic scale friction of a diamond tip on diamond (100) and (111) surfaces. *Journal of Applied Physics*, **1993**, 73, 163-167	2.5	117

12	A micropipette force probe suitable for near-field scanning optical microscopy. *Review of Scientific Instruments*, **1992**, 63, 4061-4065	1.7	88
11	An evaluation of the use of the atomic force microscope for studies in nanomechanics. *Ultramicroscopy*, **1992**, 42-44, 66-72	3.1	14
10	Nanomechanics of a Au□ contact using a bidirectional atomic force microscope. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1990**, 8, 3449-3454	2.9	74
9	Force microscopy with a bidirectional capacitance sensor. *Review of Scientific Instruments*, **1990**, 61, 2296-2308	1.7	150
8	Investigation of no scattering from organic monolayers: Spin-orbit state and vibrational state population distributions. *Chemical Physics*, **1989**, 134, 119-126	2.3	5
7	Measurement of Micromechanical Properties Using Atomic Force Microscope with Capacitative. *Materials Research Society Symposia Proceedings*, **1989**, 153, 307		3
6	Energy distribution between spin-orbit states in NO scattered from organized amphiphilic monolayers. *Chemical Physics Letters*, **1988**, 152, 269-273	2.5	6
5	Rotational and state-resolved translational distributions of NO scattered from organized amphiphilic monolayers. *Journal of Chemical Physics*, **1988**, 88, 2757-2763	3.9	32
4	Translational energy transfer from molecules and atoms to adsorbed organic monolayers of long-chain amphiphiles. *Physical Review Letters*, **1987**, 58, 1208-1211	7.4	87
3	Thermally induced disorder in organized organic monolayers on solid substrates. *The Journal of Physical Chemistry*, **1986**, 90, 3054-3056		143
2	Role of fly ash in catalytic oxidation of sulfur(IV) slurries. *Environmental Science & Technology*, **1981**, 15, 1498-1502	10.3	13
1	The kinetic isotope effect for carbon and oxygen in the reaction CO + OH. *International Journal of Chemical Kinetics*, **1980**, 12, 935-948	1.4	39