

Luis F Vazquez

List of Publications by Year in descending order

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266
papers

8,006
citations

50244

46
h-index

76872

74
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267
all docs

267
docs citations

267
times ranked

7679
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Long-range ordering in ein SiO ₂ submicrometer-sphere sintered superstructure. <i>Advanced Materials</i> , 1997, 9, 257-260.	11.1	350
2	Photonic crystal properties of packed submicrometric SiO ₂ spheres. <i>Applied Physics Letters</i> , 1997, 71, 1148-1150.	1.5	334
3	Evidence of FCC Crystallization of SiO ₂ Nanospheres. <i>Langmuir</i> , 1997, 13, 6009-6011.	1.6	293
4	Production of ordered silicon nanocrystals by low-energy ion sputtering. <i>Applied Physics Letters</i> , 2001, 78, 3316-3318.	1.5	226
5	Self-Organized Ordering of Nanostructures Produced by Ion-Beam Sputtering. <i>Physical Review Letters</i> , 2005, 94, 016102.	2.9	212
6	Self-organized nanopatterning of silicon surfaces by ion beam sputtering. <i>Materials Science and Engineering Reports</i> , 2014, 86, 1-44.	14.8	142
7	Writing nanometer-scale symbols in gold using the scanning tunneling microscope. <i>Applied Physics Letters</i> , 1989, 54, 1424-1426.	1.5	131
8	In situ conformational analysis of fibrinogen adsorbed on Si surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 42, 219-225.	2.5	125
9	Design and characterization of a lactate biosensor based on immobilized lactate oxidase onto gold surfaces. <i>Analytica Chimica Acta</i> , 2006, 555, 308-315.	2.6	117
10	Immobilization of Peroxidase Glycoprotein on Gold Electrodes Modified with Mixed Epoxy-Boronic Acid Monolayers. <i>Journal of the American Chemical Society</i> , 2002, 124, 12845-12853.	6.6	111
11	Sulfur-Substrate Interactions in Spontaneously Formed Sulfur Adlayers on Au(111). <i>Langmuir</i> , 2001, 17, 4919-4924.	1.6	107
12	Fractal surfaces of gold and platinum electrodeposits: dimensionality determination by scanning tunneling microscopy. <i>The Journal of Physical Chemistry</i> , 1992, 96, 347-350.	2.9	104
13	The Evaluation of Surface Diffusion Coefficients of Gold and Platinum Atoms at Electrochemical Interfaces from Combined STM-SEM Imaging and Electrochemical Techniques. <i>Journal of the Electrochemical Society</i> , 1990, 137, 2161-2166.	1.3	99
14	Stress-induced solid flow drives surface nanopatterning of silicon by ion-beam irradiation. <i>Physical Review B</i> , 2012, 86, .	1.1	92
15	Effect of Pulmonary Surfactant Protein SP-B on the Micro- and Nanostructure of Phospholipid Films. <i>Biophysical Journal</i> , 2004, 86, 308-320.	0.2	83
16	Ionic conductivity of nanocrystalline yttria-stabilized zirconia: Grain boundary and size effects. <i>Physical Review B</i> , 2010, 81, .	1.1	82
17	Coulomb blockade versus intergrain resistance in colossal magnetoresistive manganite granular films. <i>Physical Review B</i> , 2000, 61, 9549-9552.	1.1	78
18	Self-Affine Fractal Vapour-Deposited Gold Surfaces Characterization by Scanning Tunnelling Microscopy. <i>Europhysics Letters</i> , 1992, 20, 727-732.	0.7	75

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19	Carbon Allotrope Nanomaterials Based Catalytic Micromotors. <i>Chemistry of Materials</i> , 2016, 28, 8962-8970.	3.2	75
20	Photonic crystal made by close packing SiO ₂ submicron spheres. <i>Superlattices and Microstructures</i> , 1997, 22, 399-404.	1.4	73
21	Controlled chemistry of tailored graphene nanoribbons for electrochemistry: a rational approach to optimizing molecule detection. <i>RSC Advances</i> , 2014, 4, 132-139.	1.7	73
22	Dynamics of Rough Interfaces in Chemical Vapor Deposition: Experiments and a Model for Silica Films. <i>Physical Review Letters</i> , 2000, 84, 3125-3128.	2.9	72
23	Silver-based low-emissivity coatings for architectural windows: Optical and structural properties. <i>Solar Energy Materials and Solar Cells</i> , 1998, 53, 55-66.	3.0	68
24	Influence of a Fluorescent Probe on the Nanostructure of Phospholipid Membranes: \hat{A} Dipalmitoylphosphatidylcholine Interfacial Monolayers. <i>Langmuir</i> , 2005, 21, 5349-5355.	1.6	66
25	Epitaxial growth of crystalline, diamond-like films on Si(100) by laser ablation of graphite. <i>Applied Physics Letters</i> , 1990, 57, 1742-1744.	1.5	65
26	Temperature influence on the production of nanodot patterns by ion beam sputtering of Si(001). <i>Physical Review B</i> , 2006, 73, .	1.1	64
27	Modulation of Electroenzymatic NADPH Oxidation through Oriented Immobilization of Ferredoxin:NADP+Reductase onto Modified Gold Electrodes. <i>Journal of the American Chemical Society</i> , 2000, 122, 9808-9817.	6.6	63
28	Tuning the surface morphology in self-organized ion beam nanopatterning of Si(001) via metal incorporation: from holes to dots. <i>Nanotechnology</i> , 2008, 19, 355306.	1.3	63
29	Edward-Wilkinson Behavior of Crystal Surfaces Grown By Sedimentation of SiO ₂ Nanospheres. <i>Physical Review Letters</i> , 1996, 77, 4572-4575.	2.9	62
30	Nanopatterning of silicon surfaces by low-energy ion-beam sputtering: dependence on the angle of ion incidence. <i>Nanotechnology</i> , 2002, 13, 304-308.	1.3	61
31	Early stages of platinum electrodeposition on highly oriented pyrolytic graphite: scanning tunneling microscopy imaging and reaction pathway. <i>The Journal of Physical Chemistry</i> , 1993, 97, 5095-5102.	2.9	58
32	Scanning tunneling microscopy of electrochemically activated platinum surfaces. A direct ex-situ determination of the electrode nanotopography. <i>Journal of the American Chemical Society</i> , 1987, 109, 1730-1733.	6.6	57
33	Dynamic Scaling Exponents of Copper Electrodeposits from Scanning Force Microscopy Imaging. Influence of a Thiourea Additive on the Kinetics of Roughening and Brightening. <i>Langmuir</i> , 1998, 14, 2515-2524.	1.6	55
34	Intrinsic anomalous surface roughening of TiN films deposited by reactive sputtering. <i>Physical Review B</i> , 2006, 73, .	1.1	54
35	Observation and Modeling of Interrupted Pattern Coarsening: Surface Nanostructuring by Ion Erosion. <i>Physical Review Letters</i> , 2010, 104, 026101.	2.9	54
36	Surface topography of (100)-type electro-faceted platinum from scanning tunnelling microscopy and electrochemistry. <i>Nature</i> , 1986, 323, 612-614.	13.7	53

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37	STM-SEM combination study on the electrochemical growth mechanism and structure of gold overlayers. <i>Surface Science</i> , 1989, 215, 171-189.	0.8	53
38	Order enhancement and coarsening of self-organized silicon nanodot patterns induced by ion-beam sputtering. <i>Applied Physics Letters</i> , 2006, 89, 233101.	1.5	53
39	Validity of the Linear Growth Equation for Interface Evolution for Copper Electrodeposition in the Presence of Organic Additives. <i>Physical Review Letters</i> , 1997, 79, 709-712.	2.9	52
40	Optical and structural characterization of r.f. sputtered CeO ₂ thin films. <i>Journal of Materials Science</i> , 1997, 32, 1861-1865.	1.7	52
41	Nanomechanical characterization of nanostructured bainitic steel: Peak Force Microscopy and Nanoindentation with AFM. <i>Scientific Reports</i> , 2015, 5, 17164.	1.6	52
42	Laccase biosensors based on different enzyme immobilization strategies for phenolic compounds determination. <i>Talanta</i> , 2013, 115, 401-408.	2.9	50
43	Diamond nanoparticles based biosensors for efficient glucose and lactate determination. <i>Biosensors and Bioelectronics</i> , 2015, 68, 521-528.	5.3	50
44	Fractal characterisation of electrodispersed gold electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 319, 101-110.	0.3	49
45	Nanoscale pattern formation at surfaces under ion-beam sputtering: A perspective from continuum models. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 894-900.	0.6	49
46	Scanning-tunneling-microscopy study on the growth mode of vapor-deposited gold films. <i>Physical Review A</i> , 1992, 45, 7440-7447.	1.0	48
47	MoS ₂ nanosheets for improving analytical performance of lactate biosensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 310-317.	4.0	48
48	Atomic force microscopy (AFM) morphological surface characterization of transparent gas barrier coatings on plastic films. <i>Surface and Coatings Technology</i> , 1996, 80, 203-206.	2.2	46
49	Self-Organized Surface Nanopatterning by Ion Beam Sputtering. , 2009, , 323-398.		46
50	Structure and morphology evolution of ALN films grown by DC sputtering. <i>Surface and Coatings Technology</i> , 2004, 180-181, 140-144.	2.2	44
51	Substrate pre-treatment by ultrasonication with diamond powder mixtures for nucleation enhancement in diamond film growth. <i>Diamond and Related Materials</i> , 2009, 18, 1239-1246.	1.8	44
52	AFM, SECM and QCM as useful analytical tools in the characterization of enzyme-based bioanalytical platforms. <i>Analyst</i> , 2010, 135, 1878.	1.7	44
53	Nonuniversality due to inhomogeneous stress in semiconductor surface nanopatterning by low-energy ion-beam irradiation. <i>Physical Review B</i> , 2015, 91, .	1.1	44
54	Direct Nanopatterning of Metal Surfaces Using Self-Assembled Molecular Films. <i>Advanced Materials</i> , 2004, 16, 405-409.	11.1	42

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55	Nanomechanical Properties of Globular Proteins: Lactate Oxidase. <i>Langmuir</i> , 2007, 23, 2747-2754.	1.6	42
56	Comparative Response of Biosensing Platforms Based on Synthesized Graphene Oxide and Electrochemically Reduced Graphene. <i>Electroanalysis</i> , 2013, 25, 154-165.	1.5	42
57	X-ray absorption spectroscopy and atomic force microscopy study of bias-enhanced nucleation of diamond films. <i>Applied Physics Letters</i> , 1998, 72, 2105-2107.	1.5	41
58	Enhancement of the nucleation of smooth and dense nanocrystalline diamond films by using molybdenum seed layers. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	41
59	Chemically synthesized chevron-like graphene nanoribbons for electrochemical sensors development: determination of epinephrine. <i>Scientific Reports</i> , 2020, 10, 14614.	1.6	40
60	Direct imaging of 13 nm diam Au clusters using scanning tunneling microscopy. <i>Applied Physics Letters</i> , 1987, 51, 1594-1596.	1.5	39
61	Scanning Tunneling Microscopy Fractal Characterization of Poly(o-toluidine) Films Produced Electrochemically on Polyfaceted Gold Single Crystal Spheres. <i>The Journal of Physical Chemistry</i> , 1994, 98, 2418-2425.	2.9	39
62	New nanostructured electrochemical biosensors based on three-dimensional (3-mercaptopropyl)-trimethoxysilane network. <i>Analyst</i> , The, 2011, 136, 340-347.	1.7	39
63	Combination of a scanning tunneling microscope with a scanning electron microscope. <i>Review of Scientific Instruments</i> , 1988, 59, 1286-1289.	0.6	37
64	Self-doped titanium oxide thin films for efficient visible light photocatalysis. <i>Sensors and Actuators B: Chemical</i> , 2005, 109, 52-56.	4.0	37
65	Nanopatterning dynamics on Si(100) during oblique 40-keV Ar erosion with metal codeposition: Morphological and compositional correlation. <i>Physical Review B</i> , 2012, 86, .	1.1	37
66	Press-transferred carbon black nanoparticles for class-selective antioxidant electrochemical detection. <i>Applied Materials Today</i> , 2017, 9, 29-36.	2.3	37
67	Gold nanoparticles-induced enhancement of the analytical response of an electrochemical biosensor based on an organic-inorganic hybrid composite material. <i>Talanta</i> , 2009, 80, 797-802.	2.9	36
68	Tribological study of hydrogenated amorphous carbon films with tailored microstructure and composition produced by bias-enhanced plasma chemical vapour deposition. <i>Diamond and Related Materials</i> , 2010, 19, 1093-1102.	1.8	36
69	Growth dynamics of reactive-sputtering-deposited AlN films. <i>Journal of Applied Physics</i> , 2005, 97, 123528.	1.1	35
70	Mass transfer to a nanostructured nickel electrodeposit of high surface area in a rectangular flow channel. <i>Electrochimica Acta</i> , 2013, 90, 507-513.	2.6	35
71	Lactate biosensor based on a bionanocomposite composed of titanium oxide nanoparticles, photocatalytically reduced graphene, and lactate oxidase. <i>Mikrochimica Acta</i> , 2014, 181, 79-87.	2.5	35
72	Self-affine fractal electrodeposited gold surfaces: Characterization by scanning tunneling microscopy. <i>Physical Review E</i> , 1994, 49, 1507-1511.	0.8	34

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73	Production of nanohole/nanodot patterns on Si(001) by ion beam sputtering with simultaneous metal incorporation. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 224009.	0.7	34
74	Printed Conductive Carbon Black Nanoparticle Films for Molecular Detection at the Microscale. <i>Chemistry - A European Journal</i> , 2016, 22, 12761-12766.	1.7	34
75	Growth evolution of ZnO films deposited by pulsed laser ablation. <i>Journal of Physics Condensed Matter</i> , 2001, 13, L663-L672.	0.7	33
76	Universality of cauliflower-like fronts: from nanoscale thin films to macroscopic plants. <i>New Journal of Physics</i> , 2012, 14, 103039.	1.2	33
77	Analytical applications of retinoid-cyclodextrin inclusion complexes. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1996, 14, 909-915.	1.4	31
78	Cholesterol oxidase modified gold electrodes as bioanalytical devices. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 30-37.	4.0	31
79	Scale-dependent roughening kinetics in vapor deposited gold. <i>Surface Science</i> , 1996, 345, 17-26.	0.8	30
80	Roughening kinetics of chemical vapor deposited copper films on Si(100). <i>Applied Physics Letters</i> , 1996, 68, 1285-1287.	1.5	30
81	Biological evaluation of aerosol-gel-derived hydroxyapatite coatings with human mesenchymal stem cells. <i>Biomaterials</i> , 2002, 23, 3985-3990.	5.7	30
82	Scanning tunneling microscopy and scanning electron microscopy observations of the early stage of silver deposition on graphite single crystal electrodes. <i>The Journal of Physical Chemistry</i> , 1992, 96, 10454-10460.	2.9	29
83	Morphological, optical and electrical characterization of antireflective porous silicon coatings for solar cells. <i>Optical Materials</i> , 2001, 17, 75-78.	1.7	29
84	In situ x-ray scattering study of self-organized nanodot pattern formation on GaSb(001) by ion beam sputtering. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	29
85	Diamond nanoparticles as a way to improve electron transfer in gel-lactate biosensing platforms. <i>Analytica Chimica Acta</i> , 2016, 908, 141-149.	2.6	29
86	Characterization of surface roughness in titanium dental implants measured with scanning tunnelling microscopy at atmospheric pressure. <i>Biomaterials</i> , 1986, 7, 463-466.	5.7	28
87	Universal non-equilibrium phenomena at submicrometric surfaces and interfaces. <i>European Physical Journal: Special Topics</i> , 2007, 146, 427-441.	1.2	28
88	Architectures based on the use of gold nanoparticles and ruthenium complexes as a new route to improve genosensor sensitivity. <i>Biosensors and Bioelectronics</i> , 2008, 24, 184-190.	5.3	28
89	Surface nanopatterns induced by ion-beam sputtering. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 220301.	0.7	28
90	STM study of fractal scaling in evaporated gold films. <i>Applied Surface Science</i> , 1993, 70-71, 413-417.	3.1	27

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91	Molding and Replication of Ceramic Surfaces with Nanoscale Resolution. <i>Small</i> , 2005, 1, 300-309.	5.2	27
92	Growth dynamics of ultrasmooth hydrogenated amorphous carbon films. <i>Physical Review B</i> , 2006, 74, .	1.1	27
93	Scanning tunneling microscopy of platinum electrode surfaces with different preferred crystallographic orientations. <i>Surface Science</i> , 1987, 181, 98-106.	0.8	26
94	X-ray absorption near-edge structure of hexagonal ternary phases in sputter-deposited TiAlN films. <i>Journal of Alloys and Compounds</i> , 2013, 561, 87-94.	2.8	26
95	Scanning tunneling microscopy morphological study of the first stages of growth of microwave chemical vapor deposited thin diamond films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1994, 12, 1.	1.6	25
96	Antireflective porous-silicon coatings for multicrystalline solar cells: the effects of chemical etching and rapid thermal processing. <i>Semiconductor Science and Technology</i> , 2001, 16, 657-661.	1.0	25
97	Synergistic effect of MoS ₂ and diamond nanoparticles in electrochemical sensors: determination of the anticonvulsant drug valproic acid. <i>Mikrochimica Acta</i> , 2018, 185, 334.	2.5	25
98	Submicron structure and acoustic properties of ZnO films deposited on (100) InP by pulsed laser deposition. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 224.	1.6	24
99	Surface nanopatterning of metal thin films by physical vapour deposition onto surface-modified silicon nanodots. <i>Nanotechnology</i> , 2004, 15, S197-S200.	1.3	24
100	Microscopic and Voltammetric Characterization of Bioanalytical Platforms Based on Lactate Oxidase. <i>Langmuir</i> , 2006, 22, 5443-5450.	1.6	24
101	DC substrate bias effects on the physical properties of hydrogenated amorphous carbon films grown by plasma-assisted chemical vapour deposition. <i>Vacuum</i> , 2007, 81, 1412-1415.	1.6	24
102	Metallic Seed Nanolayers for Enhanced Nucleation of Nanocrystalline Diamond Thin Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23322-23332.	1.5	24
103	Fractal to nonfractal behavior of vapor-deposited gold surfaces and the relationship to the substrate temperature. <i>Physical Review E</i> , 1994, 50, 1367-1371.	0.8	23
104	A magnesium-induced RNA conformational switch at the internal ribosome entry site of hepatitis C virus genome visualized by atomic force microscopy. <i>Nucleic Acids Research</i> , 2015, 43, 565-580.	6.5	23
105	Scanning tunneling microscopy (STM) and scanning electron microscopy (SEM) of electrodispersed gold electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 240, 77-87.	0.3	22
106	A comparative study of electrodeposited and vapour deposited gold films: Fractal surface characterization through scanning tunnelling microscopy. <i>Electrochimica Acta</i> , 1992, 37, 2209-2214.	2.6	22
107	Three-dimensional off-lattice model for the interface growth of polycrystalline materials. <i>Physical Review B</i> , 1999, 59, 7354-7357.	1.1	22
108	Immobilization of Metallothionein on Gold/Mica Surfaces: Relationship between Surface Morphology and Protein-Substrate Interaction. <i>Langmuir</i> , 2002, 18, 5909-5920.	1.6	22

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109	Influence of the Nanostructure of Palladium Mesoparticles on the Kinetics of Molecular Oxygen Electroreduction. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10785-10795.	1.2	22
110	A complementary microscopy analysis of Sticholysin II crystals on lipid films: Atomic force and transmission electron characterizations. <i>Biophysical Chemistry</i> , 2006, 119, 219-223.	1.5	22
111	Independence of interrupted coarsening on initial system order: ion-beam nanopatterning of amorphous versus crystalline silicon targets. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 375302.	0.7	22
112	Interfacial behavior and structural properties of a clinical lung surfactant from porcine source. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2756-2766.	1.4	22
113	Effect of the low magnetic field on the electrodeposition of $\text{Co}_x\text{Ni}_{100-x}$ alloys. <i>Materials Characterization</i> , 2015, 105, 136-143.	1.9	22
114	Morphological stabilization and KPZ scaling by electrochemically induced co-deposition of nanostructured NiW alloy films. <i>Scientific Reports</i> , 2017, 7, 17997.	1.6	22
115	Thiol-Functionalized Gold Surfaces as a Strategy to Induce Order in Membrane-Bound Enzyme Immobilization. <i>Nano Letters</i> , 2002, 2, 577-582.	4.5	21
116	Surface and interface analysis of hydroxyapatite/TiO ₂ biocompatible structures. <i>Materials Science and Engineering C</i> , 2003, 23, 451-454.	3.8	21
117	Comprehensive Study of Bioanalytical Platforms: Xanthine Oxidase. <i>Analytical Chemistry</i> , 2006, 78, 530-537.	3.2	21
118	Growth Dynamics of Nanocrystalline Diamond Thin Films Deposited by Hot Filament Chemical Vapor Deposition: Influence of Low Sticking and Renucleation Processes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9681-9691.	1.5	21
119	Strong anisotropy in surface kinetic roughening: Analysis and experiments. <i>Physical Review B</i> , 2012, 86, .	1.1	21
120	High Ultraviolet Absorption in Colloidal Gallium Nanoparticles Prepared from Thermal Evaporation. <i>Nanomaterials</i> , 2017, 7, 172.	1.9	21
121	Are the high T _c superconducting materials bulk superconductors or grain boundary percolating network superconductors? (abstract). <i>Journal of Applied Physics</i> , 1988, 63, 4213-4213.	1.1	20
122	Effect of surface fractality on the permeability of transparent gas barrier coatings. <i>Advanced Materials</i> , 1997, 9, 654-658.	11.1	20
123	Epitaxial growth of Y-stabilised zirconia films on (100)InP substrates by pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2000, 209, 883-889.	0.7	20
124	Novel magnetic organic-inorganic nanostructured materials. <i>Journal of Materials Chemistry</i> , 2007, 17, 4233.	6.7	20
125	Surface and sub-surface degradation of unidirectional carbon fiber reinforced epoxy composites under dry and wet reciprocating sliding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 55, 53-62.	3.8	20
126	Carbon nanomaterial scaffold films with conductivity at micro and sub-micron levels. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13142-13147.	5.2	20

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127	A 2D tungsten disulphide/diamond nanoparticles hybrid for an electrochemical sensor development towards the simultaneous determination of sunset yellow and quinoline yellow. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128731.	4.0	20
128	Atmospheric pressure MOCVD growth of crystalline InP in opals. <i>Journal of Crystal Growth</i> , 1998, 193, 9-15.	0.7	19
129	Surface Morphology of Heterogeneous Nanocrystalline Rutile/Amorphous Anatase TiO ₂ Films Grown by Reactive Pulsed Magnetron Sputtering. <i>Plasma Processes and Polymers</i> , 2010, 7, 813-823.	1.6	19
130	STM-SEM and impedance characterization of columnar structured gold electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 317, 125-137.	0.3	18
131	Kinetics and Mechanism of \hat{I}^2 -Brass Dealloying in Aqueous 0.5 M Sodium Chloride Solution Derived from Combined Scanning Tunneling Microscopy and Electrochemical Data. <i>Langmuir</i> , 1996, 12, 500-507.	1.6	18
132	Effects of epitaxial strain on the growth mechanism in YBa ₂ Cu ₃ O _{7-x} thin films in YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O ₇ superlattices. <i>Physical Review B</i> , 2002, 66, .	1.1	18
133	Generic equations for pattern formation in evolving interfaces. <i>New Journal of Physics</i> , 2007, 9, 102-102.	1.2	18
134	Adhesin Contribution to Nanomechanical Properties of the Virulent <i>Bordetella pertussis</i> Envelope. <i>Langmuir</i> , 2012, 28, 7461-7469.	1.6	18
135	Pattern-Wavelength Coarsening from Topological Dynamics in Silicon Nanofoams. <i>Physical Review Letters</i> , 2014, 112, 094103.	2.9	18
136	Near infrared-light responsive WS ₂ microengines with high-performance electro- and photo-catalytic activities. <i>Chemical Science</i> , 2020, 11, 132-140.	3.7	18
137	Ultrasound-assisted preparation of nanocomposites based on fibrous clay minerals and nanocellulose from microcrystalline cellulose. <i>Applied Clay Science</i> , 2020, 189, 105538.	2.6	18
138	Dynamic-scaling exponents and the roughening kinetics of gold electrodeposits. <i>Physical Review B</i> , 1995, 52, 2032-2037.	1.1	17
139	Analysis of Zinc Nitride Resistive Indicators under Different Relative Humidity Conditions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29163-29168.	4.0	17
140	Magnetic Fields Enhanced the Performance of Tubular Dichalcogenide Micromotors at Low Hydrogen Peroxide Levels. <i>Chemistry - A European Journal</i> , 2019, 25, 13157-13163.	1.7	17
141	Direct visualization of the native structure of viroid RNAs at single-molecule resolution by atomic force microscopy. <i>RNA Biology</i> , 2019, 16, 295-308.	1.5	17
142	Plasmonic coupling in closed-packed ordered gallium nanoparticles. <i>Scientific Reports</i> , 2020, 10, 4187.	1.6	17
143	Imaging an optical disc by the combined use of scanning tunnelling microscopy and scanning electron microscopy. <i>Journal of Microscopy</i> , 1988, 152, 205-211.	0.8	16
144	Scanning Tunneling Microscopy Observation of Sulfur Electrodeposits on Graphite Single Crystals. <i>Langmuir</i> , 1996, 12, 2-11.	1.6	16

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145	Model of the bias-enhanced nucleation of diamond on silicon based on atomic force microscopy and x-ray-absorption studies. <i>Physical Review B</i> , 2000, 61, 10383-10387.	1.1	16
146	Secondary electron emission and photoemission studies on surface films of carbon nitride. <i>Journal of Applied Physics</i> , 2006, 99, 043513.	1.1	16
147	Bioanalytical device based on cholesterol oxidase-bonded SAM-modified electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1059-1067.	1.9	16
148	Size-selective breaking of the core-shell structure of gallium nanoparticles. <i>Nanotechnology</i> , 2018, 29, 355707.	1.3	16
149	Scanning Tunnelling microscopy and electrochemical response of electrofaceted gold electrodes. <i>Electrochimica Acta</i> , 1989, 34, 619-624.	2.6	15
150	The early stages of growth of crystalline, diamond-like films on Si(100) by pulsed laser evaporation of graphite. <i>Surface Science</i> , 1991, 251-252, 960-964.	0.8	15
151	Sensor based on diamond nanoparticles and WS ₂ for ponceau 4R and tartrazine determination: Influence of green solvents employed for WS ₂ exfoliation. <i>FlatChem</i> , 2020, 23, 100185.	2.8	15
152	A scanning tunnelling microscope study of groove structures in polycarbonate optical discs. <i>Journal of Materials Science</i> , 1989, 24, 1739-1747.	1.7	14
153	The role of slow surface-atom reordering processes in the underpotential deposition of metals. <i>Journal of Electroanalytical Chemistry</i> , 1993, 357, 339-355.	1.9	14
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