

Edward Sacher

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

213
papers

7,179
citations

45
h-index

77
g-index

220
ext. papers

7,699
ext. citations

4.7
avg, IF

5.85
L-index

#	Paper	IF	Citations
213	Ag NP Catalysis of Cu Ions in the Preparation of AgCu NPs and the Mechanism of their Enhanced Antibacterial Efficacy.. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 127831	5.1	5
212	Dynamic behaviours and drying processes of water droplets impacting on superhydrophilic surfaces. <i>Surface Engineering</i> , 2021 , 37, 1301-1307	2.6	3
211	Antimicrobial Properties of the Ag, Cu Nanoparticle System. <i>Biology</i> , 2021 , 10,	4.9	18
210	A facile route to prepare colorless Ag-Cu nanoparticle dispersions with elevated antibacterial effects. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127116	5.1	2
209	Nitric oxide attachment to SPIONs: Demonstration of the covalent SNO bond in a nanodelivery system. <i>Applied Surface Science</i> , 2020 , 521, 145959	6.7	
208	Physicochemical Characterization of Polyvinyl Pyrrolidone: A Tale of Two Polyvinyl Pyrrolidones. <i>ACS Omega</i> , 2020 , 5, 30461-30467	3.9	7
207	Physicochemical surface characterizations of four dental CAD/CAM lithium disilicate-based glass ceramics on HF etching: An XPS study. <i>Ceramics International</i> , 2020 , 46, 1411-1418	5.1	6
206	Synthesis of amorphous SiO ₂ nanowires by one-step low temperature hydrothermal process. <i>Materials Research Express</i> , 2019 , 6, 115202	1.7	1
205	The physicochemical characterization of the Cu nanoparticle surface, and of its evolution on atmospheric exposure: Application to antimicrobial bandages for wound dressings. <i>Applied Surface Science</i> , 2019 , 473, 25-30	6.7	6
204	Comment on Intensity modulation of the Shirley background of the Cr3p spectra with photon energies around the Cr2p edge by A Herrera-Gomez, D Cabrera-German, A D Dutol et al, <i>Surface Interface Anal</i> , 2018;50:246-252. <i>Surface and Interface Analysis</i> , 2018 , 50, 683-685	1.5	1
203	Short communication: Unexpected findings on the physicochemical characterization of the silver nanoparticle surface. <i>Applied Surface Science</i> , 2018 , 428, 1079-1081	6.7	5
202	A facile method to prepare mechanically durable super slippery polytetrafluoroethylene coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 556, 99-105	5.1	21
201	Improving the Mechanical Durability of Superhydrophobic Coating by Deposition onto a Mesh Structure. <i>Materials Research Express</i> , 2018 , 5, 065521	1.7	1
200	Characterization of endotoxins on orthopaedic fixation screws, using physicochemical surface analyses. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 240-247	3.8	1
199	Improved adhesion of Ag NPs to the polyethylene terephthalate surface via atmospheric plasma treatment and surface functionalization. <i>Applied Surface Science</i> , 2017 , 411, 411-418	6.7	27
198	PtRu Alloy Nanoparticles I. Physicochemical Characterizations of Structures Formed as a Function of the Type of Deposition and Their Evolutions on Annealing. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23104-23119	3.8	7
197	PtRu Alloy Nanoparticles. 2. Chemical and Electrochemical Surface Characterization for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23120-23128	3.8	13

196	Preparation of large-scale, durable, superhydrophobic PTFE films using rough glass templates. <i>Surface and Interface Analysis</i> , 2017 , 49, 1422-1430	1.5	10
195	Physicochemical Characterizations of Nanoparticles Used for Bioenergy and Biofuel Production. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 173-191	1.1	0
194	A comparative physicochemical, morphological and magnetic study of silane-functionalized superparamagnetic iron oxide nanoparticles prepared by alkaline coprecipitation. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 75, 203-11	5.6	19
193	Washing effect on superparamagnetic iron oxide nanoparticles. <i>Data in Brief</i> , 2016 , 7, 1296-301	1.2	10
192	Repelling hot water from superhydrophobic surfaces based on carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16953-16960	13	58
191	Surface Chemistry of Bacteriophage and Laser Ablated Nanoparticle Complexes for Pathogen Detection. <i>Journal of Physical Chemistry C</i> , 2015 , 150610143229008	3.8	7
190	X-ray photoelectron spectroscopic and morphologic studies of Ru nanoparticles deposited onto highly oriented pyrolytic graphite. <i>Applied Surface Science</i> , 2015 , 355, 279-289	6.7	21
189	Human alveolar epithelial cell responses to core-shell superparamagnetic iron oxide nanoparticles (SPIONs). <i>Langmuir</i> , 2015 , 31, 3829-39	4	17
188	Durable superhydrophobic PTFE films through the introduction of micro- and nanostructured pores. <i>Applied Surface Science</i> , 2015 , 339, 151-157	6.7	48
187	Protein Corona Formation on Magnetite Nanoparticles: Effects of Culture Medium Composition, and Its Consequences on Superparamagnetic Nanoparticle Cytotoxicity. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 828-40	4	15
186	Nanoscale surface characterization of biphasic calcium phosphate, with comparisons to calcium hydroxyapatite and tricalcium phosphate bioceramics. <i>Journal of Colloid and Interface Science</i> , 2014 , 420, 182-8	9.3	49
185	Bacteriophages: biosensing tools for multi-drug resistant pathogens. <i>Analyst, The</i> , 2014 , 139, 1224-36	5	53
184	How to repel hot water from a superhydrophobic surface?. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10639-10646	13	51
183	Surface Plasmon Resonance Determination of the Binding Mechanisms of L-Cysteine and Mercaptoundecanoic Acid on Gold. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6712-6718	3.8	16
182	The differential detection of methicillin-resistant, methicillin-susceptible and borderline oxacillin-resistant <i>Staphylococcus aureus</i> by surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 334-40	11.8	29
181	X-ray Photoelectron Spectroscopic and Transmission Electron Microscopic Characterizations of Bacteriophage-Nanoparticle Complexes for Pathogen Detection. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20656-20665	3.8	40
180	Core-shell nanoparticles as prodrugs: possible cytotoxicological and biomedical impacts of batch-to-batch inconsistencies. <i>Journal of Colloid and Interface Science</i> , 2013 , 389, 292-7	9.3	32
179	Strategies for the Immobilization of Bacteriophages on Gold Surfaces Monitored by Surface Plasmon Resonance and Surface Morphology. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6686-6691	3.8	24

178	The effect of ethylene oxide sterilization on the surface chemistry and in vitro cytotoxicity of several kinds of chitosan. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 1444-55	3.5	28
177	Nitric oxide delivery by core/shell superparamagnetic nanoparticle vehicles with enhanced biocompatibility. <i>Langmuir</i> , 2012 , 28, 12879-85	4	48
176	Surface plasmon resonance detection of E. coli and methicillin-resistant S. aureus using bacteriophages. <i>Biosensors and Bioelectronics</i> , 2012 , 37, 24-9	11.8	156
175	Formation of FePt Alloy Nanoparticles on Highly Oriented Pyrolytic Graphite: A Morphological and In Situ X-ray Photoelectron Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6902-6912	3.8	8
174	Comment on "The mathematical origins of the kinetic compensation effect" parts 1 and 2 by P. J. Barrie, Phys. Chem. Chem. Phys., 2012, 14, 318 and 327. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8232-4; discussion 8235-6	3.6	31
173	In vitro biocompatibility assessment of functionalized magnetite nanoparticles: biological and cytotoxicological effects. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 1637-46	5.4	37
172	pH-Triggered Doxorubicin Delivery Based on Hollow Nanoporous Silica Nanoparticles with Free-Standing Superparamagnetic Fe ₃ O ₄ Cores. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1436-1443	3.8	59
171	Multi-Excitation Entropy, Entropy-Enthalpy Relations, and their Impact on Catalysis. <i>Catalysis Letters</i> , 2011 , 141, 954-957	2.8	15
170	X-ray Photoelectron Spectroscopic Studies of Pd Nanoparticles Deposited onto Highly Oriented Pyrolytic Graphite: Interfacial Interaction, Spectral Asymmetry, and Size Determination. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7896-7905	3.8	42
169	Surface Chemistry and Thermal Stability of Fe Nanoparticles Annealed under Ultrahigh-Vacuum Conditions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12972-12980	3.8	5
168	The Effect of Deposition Rate on the Morphology of Fe Nanoparticles on Highly Oriented Pyrolytic Graphite, As Studied by X-ray Photoelectron Spectroscopy and Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1524-1534	3.8	1
167	Confirmation of X-ray Photoelectron Spectroscopy Peak Attributions of Nanoparticulate Iron Oxides, Using Symmetric Peak Component Line Shapes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10711-10718	3.8	115
166	Asymmetries in transition metal XPS spectra: metal nanoparticle structure, and interaction with the graphene-structured substrate surface. <i>Langmuir</i> , 2010 , 26, 3807-14	4	35
165	Chemical and morphological characterizations of CoNi alloy nanoparticles formed by co-evaporation onto highly oriented pyrolytic graphite. <i>Journal of Colloid and Interface Science</i> , 2010 , 350, 16-21	9.3	13
164	Stabilization of platinum nanoparticles on graphene by non-invasive functionalization. <i>Carbon</i> , 2009 , 47, 2233-2238	10.4	16
163	The unexpected formation of Au ₂ Si ₃ by the resonance neutralization of Ar ⁺ during the low energy bombardment of Au nanoparticles on c-Si. <i>Applied Surface Science</i> , 2009 , 255, 6870-6874	6.7	
162	Characterization and Oxidation of Fe Nanoparticles Deposited onto Highly Oriented Pyrolytic Graphite, Using X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6418-6425	3.8	34
161	Formation of a Porous Platinum Nanoparticle Froth for Electrochemical Applications, Produced without Templates, Surfactants, or Stabilizers. <i>Chemistry of Materials</i> , 2008 , 20, 4677-4681	9.6	27

160	A Facile Route for the Self-Organized High-Density Decoration of Pt Nanoparticles on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11717-11721	3.8	45
159	Strongly Enhanced Interaction between Evaporated Pt Nanoparticles and Functionalized Multiwalled Carbon Nanotubes via Plasma Surface Modifications: Effects of Physical and Chemical Defects. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4075-4082	3.8	75
158	Template- and Surfactant-free Room Temperature Synthesis of Self-Assembled 3D Pt Nanoflowers from Single-Crystal Nanowires. <i>Advanced Materials</i> , 2008 , 20, 571-574	24	214
157	The surface analytical characterization of carbon fibers functionalized by H ₂ SO ₄ /HNO ₃ treatment. <i>Carbon</i> , 2008 , 46, 196-205	10.4	430
156	Structure and Morphology of Co Nanoparticles Deposited onto Highly Oriented Pyrolytic Graphite. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17200-17205	3.8	22
155	X-ray Photoelectron Spectroscopic Analysis of Pt Nanoparticles on Highly Oriented Pyrolytic Graphite, Using Symmetric Component Line Shapes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 565-570	3.8	80
154	Core/Shell Formation of Gold Nanoparticles Induced on Exposure to N,N-Dimethylformamide: Chemical and Morphological Changes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14320-14326	3.8	1
153	Accurate Assembly and Size Control of Cu Nanoparticles into Nanowires by Contact Atomic Force Microscope-Based Nanopositioning. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10105-10109	3.8	5
152	Adhesion to tooth structure mediated by contemporary bonding systems. <i>Dental Clinics of North America</i> , 2007 , 51, 677-94, vii	3.3	15
151	Synthesis and Characterization of Platinum Nanowire/Carbon Nanotube Heterostructures. <i>Chemistry of Materials</i> , 2007 , 19, 6376-6378	9.6	93
150	Carbon 1s X-ray photoemission line shape analysis of highly oriented pyrolytic graphite: the influence of structural damage on peak asymmetry. <i>Langmuir</i> , 2006 , 22, 860-2	4	131
149	XPS Demonstration of Interaction between Benzyl Mercaptan and Multiwalled Carbon Nanotubes and Their Use in the Adhesion of Pt Nanoparticles. <i>Chemistry of Materials</i> , 2006 , 18, 5033-5038	9.6	126
148	Evidence of the interaction of evaporated Pt nanoparticles with variously treated surfaces of highly oriented pyrolytic graphite. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8348-56	3.4	53
147	Platinum Nanoparticle Interaction with Chemically Modified Highly Oriented Pyrolytic Graphite Surfaces. <i>Chemistry of Materials</i> , 2006 , 18, 1811-1816	9.6	38
146	Controlled chemical functionalization of multiwalled carbon nanotubes by kiloelectronvolt argon ion treatment and air exposure. <i>Langmuir</i> , 2005 , 21, 8539-45	4	62
145	Oxidation, deformation, and destruction of carbon nanotubes in aqueous ceric sulfate. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1400-7	3.4	37
144	Functionalization of multiwalled carbon nanotubes by mild aqueous sonication. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7788-94	3.4	117
143	Nanocalorimetric investigation of light-induced metastable defects in hydrogenated amorphous silicon. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 3630-3633	3.9	1

142	Spectroscopic evidence for pi-pi interaction between poly(diallyl dimethylammonium) chloride and multiwalled carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4481-4	3.4	244
141	Surface diffusion and coalescence of mobile metal nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 9703-11	3.4	305
140	Interaction of evaporated nickel nanoparticles with highly oriented pyrolytic graphite: Back-bonding to surface defects, as studied by X-ray photoelectron spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19329-34	3.4	36
139	Electrophoretic separation of aniline derivatives using fused silica capillaries coated with acid treated single-walled carbon nanotubes. <i>Journal of Chromatography A</i> , 2005 , 1074, 187-94	4.5	68
138	Microscale chemical and electrostatic surface patterning of Dow Cyclotene by N ₂ plasma. <i>Applied Surface Science</i> , 2005 , 242, 419-427	6.7	1
137	The surface modification of nanoporous SiO _x thin films with a monofunctional organosilane. <i>Applied Surface Science</i> , 2005 , 252, 1197-1201	6.7	12
136	The creation of Au nanoscale surface patterns by the low energy Ar ⁺ beam irradiation of Au clusters evaporated onto a SiO ₂ /Si surface. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 575-579	2.6	4
135	Femtosecond laser ablation of gold in water: influence of the laser-produced plasma on the nanoparticle size distribution. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 753-758	2.6	161
134	A mediatorless biosensor for putrescine using multiwalled carbon nanotubes. <i>Analytical Biochemistry</i> , 2005 , 336, 305-11	3.1	45
133	Photoacoustic Fourier transform infrared spectroscopy of nanoporous SiO _x /Si thin films with varying porosities. <i>Journal of Applied Physics</i> , 2005 , 98, 114310	2.5	9
132	Excimer laser manipulation and patterning of gold nanoparticles on the SiO ₂ /Si surface. <i>Journal of Applied Physics</i> , 2004 , 95, 5023-5026	2.5	22
131	Optical breakdown processing: Influence of the ambient gas on the properties of the nanostructured Si-based layers formed. <i>Journal of Applied Physics</i> , 2004 , 95, 5722-5728	2.5	11
130	Surface plasmons in Drude metals. <i>Surface Science</i> , 2004 , 569, 47-55	1.8	18
129	The early stages of silicon surface damage induced by pulsed CO ₂ laser radiation: an AFM study. <i>Applied Surface Science</i> , 2004 , 222, 365-373	6.7	5
128	Stabilization and size control of gold nanoparticles during laser ablation in aqueous cyclodextrins. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7176-7	16.4	291
127	Surface Chemistry of Gold Nanoparticles Produced by Laser Ablation in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16864-16869	3.4	466
126	A spectroscopic study of CN _x formation by the keV N ₂ ⁺ irradiation of highly oriented pyrolytic graphite surfaces. <i>Surface Science</i> , 2003 , 531, 185-198	1.8	18
125	The manipulation of Cu cluster dimensions on highly oriented pyrolytic graphite surfaces by low energy ion beam irradiation. <i>Surface Science</i> , 2003 , 536, 67-74	1.8	11

124	The applicability of angle-resolved XPS to the characterization of clusters on surfaces. <i>Surface Science</i> , 2003 , 536, 139-144	1.8	20
123	Cu cluster adhesion enhancement on the modified Dow Cyclotene surface through low energy N ₂ ⁺ beam irradiation at grazing angles. <i>Applied Surface Science</i> , 2003 , 207, 1-5	6.7	8
122	Local surface cleaning and cluster assembly using contact mode atomic force microscopy. <i>Applied Surface Science</i> , 2003 , 210, 158-164	6.7	6
121	The surface modification of Dow Cyclotene by low energy N ₂ ⁺ beams and its effect on the adhesion of evaporated Cu films. <i>Applied Surface Science</i> , 2002 , 195, 202-213	6.7	4
120	Ar ⁺ -induced surface defects on HOPG and their effect on the nucleation, coalescence and growth of evaporated copper. <i>Surface Science</i> , 2002 , 516, 43-55	1.8	58
119	Initial- and final-state effects on metal cluster/substrate interactions, as determined by XPS: copper clusters on Dow Cyclotene and highly oriented pyrolytic graphite. <i>Applied Surface Science</i> , 2002 , 195, 187-195	6.7	57
118	The quantitative correlation of nanoscopic and macroscopic measurements of adhesion: copper clusters on a low-permittivity polymer. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 7097-7100	1.8	7
117	<i>sp</i> Hybridization in highly oriented pyrolytic graphite and its change on surface modification, as studied by X-ray photoelectron and Raman spectroscopies. <i>Surface Science</i> , 2002 , 504, 125-137	1.8	100
116	The Study of Copper Clusters on Dow Cyclotene and Their Stability 2002 , 97-105		5
115	The estimation of the average dimensions of deposited clusters from XPS emission intensity ratios. <i>Applied Surface Science</i> , 2001 , 173, 134-139	6.7	36
114	Nitrogen plasma treatment of the dow Cyclotene 3022 surface and its reaction with evaporated copper. <i>Applied Surface Science</i> , 2001 , 177, 85-95	6.7	30
113	The enhancement of the adhesion of copper layers to Dow Cyclotene 3022 through metal sputtering. <i>Applied Surface Science</i> , 2001 , 180, 200-208	6.7	11
112	The copper/plasma-polymerized octofluorocyclobutane interface. <i>Polymer</i> , 2001 , 42, 4299-4307	3.9	22
111	A photoacoustic FTIRS study of the chemical modifications of human dentin surfaces: II. Deproteinization. <i>Biomaterials</i> , 2001 , 22, 793-7	15.6	64
110	A photoacoustic FTIRS study of the chemical modifications of human dentin surfaces: I. Demineralization. <i>Biomaterials</i> , 2001 , 22, 787-92	15.6	28
109	Argon ion treatment of the Dow Cyclotene 3022 surface and its effect on the adhesion of evaporated copper. <i>Applied Surface Science</i> , 2001 , 173, 30-39	6.7	19
108	Quantitative assessment of surface roughness as measured by AFM: application to polished human dentin. <i>Applied Surface Science</i> , 2001 , 183, 205-215	6.7	40
107	Fluorine incorporation in plasma-polymerized octofluorocyclobutane, hexafluoropropylene and trifluoroethylene. <i>Polymer</i> , 2001 , 42, 3761-3769	3.9	71

106	A tapping mode AFM study of collapse and denaturation in dentinal collagen. <i>Dental Materials</i> , 2001 , 17, 284-8	5.7	50
105	Coalescence kinetics of copper clusters on highly oriented pyrolytic graphite and Dow Cyclotene, as determined by x-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2001 , 90, 4768-4771	2.5	25
104	Structural changes in amorphous silicon studied by X-ray photoemission spectroscopy: a phenomenon independent of the Staebler-Wronski effect?. <i>Journal of Non-Crystalline Solids</i> , 2001 , 282, 165-172	3.9	10
103	The surface structure of Dow Cyclotene 3022, as determined by photoacoustic FTIR, confocal Raman and photoelectron spectroscopies. <i>Applied Surface Science</i> , 2000 , 165, 15-22	6.7	20
102	Interfacial reaction between evaporated copper and Dow Cyclotene 3022. <i>Applied Surface Science</i> , 2000 , 165, 116-126	6.7	24
101	The modeling of excimer laser particle removal from hydrophilic silicon surfaces. <i>Journal of Applied Physics</i> , 2000 , 87, 3618-3627	2.5	38
100	The effects of hydrogen bonds on the adhesion of inorganic oxide particles on hydrophilic silicon surfaces. <i>Journal of Applied Physics</i> , 1999 , 86, 1744-1748	2.5	45
99	The cleaning and thiolation of commercial titanium for use in dental prostheses. <i>Applied Surface Science</i> , 1999 , 143, 238-244	6.7	3
98	Plasma Surface Modification of Fluoropolymers Studied by ToF-SIMS. <i>Plasmas and Polymers</i> , 1999 , 4, 97-111		5
97	The Surface Modification of Pure Cellulose Paper Induced by Low-Pressure Nitrogen Plasma Treatment. <i>Plasmas and Polymers</i> , 1998 , 3, 61-76		30
96	Photodegradation of teflon AF1600 during XPS analysis. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 1201-1207	2.9	12
95	Moisture-dependent renaturation of collagen in phosphoric acid etched human dentin. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 549-53		33
94	Laser-induced metal-organic chemical vapor deposition (MOCVD) of Cu(hfac)(TMVS) on amorphous Teflon AF1600: an XPS study of the interface. <i>Applied Surface Science</i> , 1998 , 126, 198-204	6.7	14
93	X-ray photoelectron spectroscopy studies of the evaporated aluminum/corona-treated polyethylene terephthalate interface. <i>Applied Surface Science</i> , 1998 , 135, 339-349	6.7	37
92	Angle-resolved x-ray photoelectron spectroscopy comparison of copper/Teflon AF1600 and aluminum/Kapton metal diffusion. <i>Journal of Applied Physics</i> , 1998 , 83, 108-111	2.5	17
91	Laser induced deposition of tungsten and copper. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 45, 200-207	3.1	8
90	Copper metallization of Teflon AF1600, using evaporation and sputtering, for multilevel interconnect devices. <i>Microelectronic Engineering</i> , 1997 , 33, 217-221	2.5	14
89	CO2 laser-assisted removal of submicron particles from solid surfaces. <i>Journal of Applied Physics</i> , 1996 , 79, 2857-2862	2.5	30

88	Angle-resolved XPS study of plasma-treated teflon PFA surfaces. <i>Surface and Interface Analysis</i> , 1995 , 23, 99-104	1.5	41
87	Excimer laser-induced deposition of copper from Cu(hfac) (TMVS). <i>Applied Surface Science</i> , 1995 , 86, 509-513	6.7	18
86	A multitechnique analysis of the outermost layers of the Teflon PFA surface. <i>Applied Surface Science</i> , 1995 , 84, 227-235	6.7	10
85	Metallization of polythiophenes II. Interaction of vapor-deposited Cr, V and Ti with poly(3-hexylthiophene) (P3HT). <i>Synthetic Metals</i> , 1995 , 72, 73-80	3.6	38
84	Metallization of polythiophenes III. Interaction of vapor-deposited Cu and Ni with poly(3-octyloxy-methylthiophene) (P3O4MT). <i>Synthetic Metals</i> , 1995 , 72, 81-88	3.6	10
83	Metallization of polythiophenes IV. Interaction of vapor-deposited Cu and Ni with poly[3-(1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorononyl)thiophene] (P3TT). <i>Synthetic Metals</i> , 1995 , 75, 195-200	3.6	7
82	A theoretical investigation of the interactions between thiophene and vanadium, chromium, copper, and gold. <i>Journal of Chemical Physics</i> , 1995 , 102, 6153-6158	3.9	66
81	Chemical characterization of the resin-dentin interface by micro-Raman spectroscopy. <i>Journal of Dental Research</i> , 1994 , 73, 584-5	8.1	1
80	Fluoropolymer surface modification for enhanced evaporated metal adhesion. <i>Journal of Adhesion Science and Technology</i> , 1994 , 8, 1129-1141	2	57
79	The Effect of Conditioning on Adhesion to Human Dentin 1994 , 47, 133-149		8
78	Metallization of Teflon PFA. I. Interactions of evaporated Cr and Al measured by x-ray photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994 , 12, 29-34	2.9	40
77	The Au/Si(100) (1 × 1)-H interface, as studied by XPS and AFM: a model of the interfacial reaction. <i>Applied Surface Science</i> , 1994 , 78, 399-411	6.7	7
76	Electronegativity-based predictions on the fitting of the C 1s X-ray photoelectron spectrum of PMMA. <i>Applied Surface Science</i> , 1994 , 74, 129-130	6.7	5
75	Fluoropolymer metallization for microelectronic applications. <i>Progress in Surface Science</i> , 1994 , 47, 273-300		112
74	Metallization of polythiophenes I. Interaction of vapor-deposited Cu, Ag and Au with poly(3-hexylthiophene) (P3HT). <i>Synthetic Metals</i> , 1994 , 66, 209-215	3.6	73
73	Metallization of Teflon PFA. II. Interactions of Ti, Ag, and Au measured by x-ray photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994 , 12, 807-812	2.9	24
72	X-ray photoelectron diffraction and spectroscopy of sputter-deposited or evaporated coinage metals on Si(100). <i>Applied Surface Science</i> , 1993 , 64, 205-213	6.7	6
71	Reply to Comment of M.P. Seah and P.J. Cumpson on Spectral noise removal by digital filtering and its application to surface analysis by K. Piyakis and E. Sacher <i>Applied Surface Science</i> , 1993 , 64, 361-364	6.7	3

70	Amorphization of c-Si by the sputter deposition of Au studied by x-ray photoelectron diffraction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992 , 10, 1002-1005	2.9	3
69	S-passivated InP (100)-(1 $\bar{1}$) surface prepared by a wet chemical process. <i>Applied Physics Letters</i> , 1992 , 60, 2669-2671	3.4	106
68	Comment on Infrared study of the Si-H stretching band in a-SiC:H[J. Appl. Phys. 69, 7805 (1991)]. <i>Journal of Applied Physics</i> , 1992 , 71, 4091-4091	2.5	3
67	Spectral noise removal by digital filtering and its application to surface analysis. <i>Applied Surface Science</i> , 1992 , 55, 159-164	6.7	9
66	Ultraviolet photoelectron spectroscopic study of the surface etching of air-oxidized hydrogenated amorphous silicon by aqueous hydrofluoric acid solution. <i>Applied Surface Science</i> , 1992 , 59, 239-243	6.7	4
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