

# Edward Sacher

## List of Publications by Citations

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213  
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7,179  
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77  
g-index

220  
ext. papers

7,699  
ext. citations

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avg, IF

5.85  
L-index

#	Paper	IF	Citations
213	Surface Chemistry of Gold Nanoparticles Produced by Laser Ablation in Aqueous Media. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 16864-16869	3.4	466
212	The surface analytical characterization of carbon fibers functionalized by H <sub>2</sub> SO <sub>4</sub> /HNO <sub>3</sub> treatment. <i>Carbon</i> , <b>2008</b> , 46, 196-205	10.4	430
211	Surface diffusion and coalescence of mobile metal nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 9703-11	3.4	305
210	Stabilization and size control of gold nanoparticles during laser ablation in aqueous cyclodextrins. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7176-7	16.4	291
209	Spectroscopic evidence for pi-pi interaction between poly(diallyl dimethylammonium) chloride and multiwalled carbon nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 4481-4	3.4	244
208	Template- and Surfactant-free Room Temperature Synthesis of Self-Assembled 3D Pt Nanoflowers from Single-Crystal Nanowires. <i>Advanced Materials</i> , <b>2008</b> , 20, 571-574	24	214
207	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> , <b>2005</b> , 80, 753-758	2.6	161
206	Surface plasmon resonance detection of E. coli and methicillin-resistant S. aureus using bacteriophages. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 37, 24-9	11.8	156
205	Carbon 1s X-ray photoemission line shape analysis of highly oriented pyrolytic graphite: the influence of structural damage on peak asymmetry. <i>Langmuir</i> , <b>2006</b> , 22, 860-2	4	131
204	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> , <b>2006</b> , 18, 5033-5038	8.6	126
203	Functionalization of multiwalled carbon nanotubes by mild aqueous sonication. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 7788-94	3.4	117
202	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> , <b>2010</b> , 114, 10711-10718	3.8	115
201	Fluoropolymer metallization for microelectronic applications. <i>Progress in Surface Science</i> , <b>1994</b> , 47, 273-300	3.0	112
200	S-passivated InP (100)-(1 $\times$ 1) surface prepared by a wet chemical process. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 2669-2671	3.4	106
199	Kinetics of epoxy cure: (1) The system bisphenol-A diglycidyl ether/m-phenylene diamine. <i>Polymer</i> , <b>1971</b> , 12, 335-343	3.9	106
198	s $\pi$ 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> , <b>2002</b> , 504, 125-137	1.8	100
197	Synthesis and Characterization of Platinum Nanowire/Carbon Nanotube Heterostructures. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 6376-6378	9.6	93

196	Water permeation of polymer films. I. Polyimide. <i>Journal of Applied Polymer Science</i> , <b>1979</b> , 23, 2355-2364.	2.9	84
195	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> , <b>2007</b> , 111, 565-570	3.8	80
194	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> , <b>2008</b> , 112, 4075-4082	3.8	75
193	Metallization of polythiophenes I. Interaction of vapor-deposited Cu, Ag and Au with poly(3-hexylthiophene) (P3HT). <i>Synthetic Metals</i> , <b>1994</b> , 66, 209-215	3.6	73
192	Kinetics of epoxy cure: 2. The system bisphenol-A diglycidyl ether/polyamide. <i>Polymer</i> , <b>1972</b> , 13, 455-458.	2.9	72
191	Fluorine incorporation in plasma-polymerized octofluorocyclobutane, hexafluoropropylene and trifluoroethylene. <i>Polymer</i> , <b>2001</b> , 42, 3761-3769	3.9	71
190	Electrophoretic separation of aniline derivatives using fused silica capillaries coated with acid treated single-walled carbon nanotubes. <i>Journal of Chromatography A</i> , <b>2005</b> , 1074, 187-94	4.5	68
189	X-ray photoelectron spectra of antimony oxides. <i>Applied Surface Science</i> , <b>1989</b> , 40, 175-177	6.7	67
188	A theoretical investigation of the interactions between thiophene and vanadium, chromium, copper, and gold. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 6153-6158	3.9	66
187	A photoacoustic FTIRS study of the chemical modifications of human dentin surfaces: II. Deproteination. <i>Biomaterials</i> , <b>2001</b> , 22, 793-7	15.6	64
186	Controlled chemical functionalization of multiwalled carbon nanotubes by kiloelectronvolt argon ion treatment and air exposure. <i>Langmuir</i> , <b>2005</b> , 21, 8539-45	4	62
185	pH-Triggered Doxorubicin Delivery Based on Hollow Nanoporous Silica Nanoparticles with Free-Standing Superparamagnetic Fe <sub>3</sub> O <sub>4</sub> Cores. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1436-1443	3.8	59
184	Kinetics of epoxy cure: 3. The systems bisphenol-A epoxides/dicy. <i>Polymer</i> , <b>1973</b> , 14, 91-95	3.9	59
183	Repelling hot water from superhydrophobic surfaces based on carbon nanotubes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16953-16960	13	58
182	Ar <sup>+</sup> -induced surface defects on HOPG and their effect on the nucleation, coalescence and growth of evaporated copper. <i>Surface Science</i> , <b>2002</b> , 516, 43-55	1.8	58
181	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> , <b>2002</b> , 195, 187-195	6.7	57
180	Fluoropolymer surface modification for enhanced evaporated metal adhesion. <i>Journal of Adhesion Science and Technology</i> , <b>1994</b> , 8, 1129-1141	2	57
179	Bacteriophages: biosensing tools for multi-drug resistant pathogens. <i>Analyst, The</i> , <b>2014</b> , 139, 1224-36	5	53

178	Evidence of the interaction of evaporated Pt nanoparticles with variously treated surfaces of highly oriented pyrolytic graphite. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 8348-56	3.4	53
177	Water permeation of polymer films. III. High-temperature polyimides. <i>Journal of Applied Polymer Science</i> , <b>1981</b> , 26, 679-686	2.9	52
176	How to repel hot water from a superhydrophobic surface?. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10639-10646	13	51
175	A tapping mode AFM study of collapse and denaturation in dentinal collagen. <i>Dental Materials</i> , <b>2001</b> , 17, 284-8	5.7	50
174	Nanoscale surface characterization of biphasic calcium phosphate, with comparisons to calcium hydroxyapatite and tricalcium phosphate bioceramics. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 420, 182-8	9.3	49
173	Durable superhydrophobic PTFE films through the introduction of micro- and nanostructured pores. <i>Applied Surface Science</i> , <b>2015</b> , 339, 151-157	6.7	48
172	Nitric oxide delivery by core/shell superparamagnetic nanoparticle vehicles with enhanced biocompatibility. <i>Langmuir</i> , <b>2012</b> , 28, 12879-85	4	48
171	A Facile Route for the Self-Organized High-Density Decoration of Pt Nanoparticles on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11717-11721	3.8	45
170	A mediatorless biosensor for putrescine using multiwalled carbon nanotubes. <i>Analytical Biochemistry</i> , <b>2005</b> , 336, 305-11	3.1	45
169	The effects of hydrogen bonds on the adhesion of inorganic oxide particles on hydrophilic silicon surfaces. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 1744-1748	2.5	45
168	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> , <b>2011</b> , 115, 7896-7905	3.8	42
167	Angle-resolved XPS study of plasma-treated teflon PFA surfaces. <i>Surface and Interface Analysis</i> , <b>1995</b> , 23, 99-104	1.5	41
166	X-ray Photoelectron Spectroscopic and Transmission Electron Microscopic Characterizations of Bacteriophage Nanoparticle Complexes for Pathogen Detection. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 20656-20665	3.8	40
165	Quantitative assessment of surface roughness as measured by AFM: application to polished human dentin. <i>Applied Surface Science</i> , <b>2001</b> , 183, 205-215	6.7	40
164	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> , <b>1994</b> , 12, 29-34	2.9	40
163	Platinum Nanoparticle Interaction with Chemically Modified Highly Oriented Pyrolytic Graphite Surfaces. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 1811-1816	9.6	38
162	The modeling of excimer laser particle removal from hydrophilic silicon surfaces. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 3618-3627	2.5	38
161	Metallization of polythiophenes II. Interaction of vapor-deposited Cr, V and Ti with poly(3-hexylthiophene) (P3HT). <i>Synthetic Metals</i> , <b>1995</b> , 72, 73-80	3.6	38

160	In vitro biocompatibility assessment of functionalized magnetite nanoparticles: biological and cytotoxicological effects. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 1637-46	5.4	37
159	X-ray photoelectron spectroscopy studies of the evaporated aluminum/corona-treated polyethylene terephthalate interface. <i>Applied Surface Science</i> , <b>1998</b> , 135, 339-349	6.7	37
158	Oxidation, deformation, and destruction of carbon nanotubes in aqueous ceric sulfate. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 1400-7	3.4	37
157	X-Ray photoelectron study of the plasma fluorination of lignocellulose. <i>Applied Surface Science</i> , <b>1990</b> , 44, 165-169	6.7	37
156	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> , <b>2005</b> , 109, 19329-34	3.4	36
155	The estimation of the average dimensions of deposited clusters from XPS emission intensity ratios. <i>Applied Surface Science</i> , <b>2001</b> , 173, 134-139	6.7	36
154	Asymmetries in transition metal XPS spectra: metal nanoparticle structure, and interaction with the graphene-structured substrate surface. <i>Langmuir</i> , <b>2010</b> , 26, 3807-14	4	35
153	Characterization and Oxidation of Fe Nanoparticles Deposited onto Highly Oriented Pyrolytic Graphite, Using X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 6418-6425 <sup>3,8</sup>		34
152	Moisture-dependent renaturation of collagen in phosphoric acid etched human dentin. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 42, 549-53		33
151	Core-shell nanoparticles as prodrugs: possible cytotoxicological and biomedical impacts of batch-to-batch inconsistencies. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 389, 292-7	9.3	32
150	Comment on "The mathematical origins of the kinetic compensation effect" parts 1 and 2 by P. J. Barrie, <i>Phys. Chem. Chem. Phys.</i> , 2012, 14, 318 and 327. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 8232-4; discussion 8235-6	3.6	31
149	The Surface Modification of Pure Cellulose Paper Induced by Low-Pressure Nitrogen Plasma Treatment. <i>Plasmas and Polymers</i> , <b>1998</b> , 3, 61-76		30
148	Nitrogen plasma treatment of the dow Cyclotene 3022 surface and its reaction with evaporated copper. <i>Applied Surface Science</i> , <b>2001</b> , 177, 85-95	6.7	30
147	CO2 laser-assisted removal of submicron particles from solid surfaces. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 2857-2862	2.5	30
146	Surface reaction during the argon ion sputter cleaning of surface oxidized crystalline silicon (111). <i>Surface Science</i> , <b>1989</b> , 217, L377-L381	1.8	30
145	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> , <b>2013</b> , 49, 334-40	11.8	29
144	Auger electron spectroscopy of deposited silane layers. <i>Journal of Colloid and Interface Science</i> , <b>1978</b> , 67, 538-540	9.3	29
143	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> , <b>2013</b> , 101, 1444-55	3.5	28

142	A photoacoustic FTIRS study of the chemical modifications of human dentin surfaces: I. Demineralization. <i>Biomaterials</i> , <b>2001</b> , 22, 787-92	15.6	28
141	Improved adhesion of Ag NPs to the polyethylene terephthalate surface via atmospheric plasma treatment and surface functionalization. <i>Applied Surface Science</i> , <b>2017</b> , 411, 411-418	6.7	27
140	Formation of a Porous Platinum Nanoparticle Froth for Electrochemical Applications, Produced without Templates, Surfactants, or Stabilizers. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4677-4681	9.6	27
139	A relation between toughness and the dynamic mechanical properties of polymer films. <i>Journal of Applied Polymer Science</i> , <b>1975</b> , 19, 1421-1425	2.9	26
138	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> , <b>2001</b> , 90, 4768-4771	2.5	25
137	Strategies for the Immobilization of Bacteriophages on Gold Surfaces Monitored by Surface Plasmon Resonance and Surface Morphology. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6686-6691	3.8	24
136	Interfacial reaction between evaporated copper and Dow Cyclotene 3022. <i>Applied Surface Science</i> , <b>2000</b> , 165, 116-126	6.7	24
135	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> , <b>1994</b> , 12, 807-812	2.9	24
134	Kinetics of the room-temperature air oxidation of hydrogenated amorphous silicon and crystalline silicon. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1988</b> , 58, 385-388		23
133	Structure and Morphology of Co Nanoparticles Deposited onto Highly Oriented Pyrolytic Graphite. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17200-17205	3.8	22
132	Excimer laser manipulation and patterning of gold nanoparticles on the SiO <sub>2</sub> /Si surface. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 5023-5026	2.5	22
131	The copper/plasma-polymerized octafluorocyclobutane interface. <i>Polymer</i> , <b>2001</b> , 42, 4299-4307	3.9	22
130	X-ray photoelectron spectroscopic and morphologic studies of Ru nanoparticles deposited onto highly oriented pyrolytic graphite. <i>Applied Surface Science</i> , <b>2015</b> , 355, 279-289	6.7	21
129	A facile method to prepare mechanically durable super slippery polytetrafluoroethylene coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 556, 99-105	5.1	21
128	The applicability of angle-resolved XPS to the characterization of clusters on surfaces. <i>Surface Science</i> , <b>2003</b> , 536, 139-144	1.8	20
127	The surface structure of Dow Cyclotene 3022, as determined by photoacoustic FTIR, confocal Raman and photoelectron spectroscopies. <i>Applied Surface Science</i> , <b>2000</b> , 165, 15-22	6.7	20
126	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> , <b>2016</b> , 75, 203-11	5.6	19
125	Argon ion treatment of the Dow Cyclotene 3022 surface and its effect on the adhesion of evaporated copper. <i>Applied Surface Science</i> , <b>2001</b> , 173, 30-39	6.7	19

124	Surface plasmons in Drude metals. <i>Surface Science</i> , <b>2004</b> , 569, 47-55	1.8	18
123	A spectroscopic study of CN <sub>x</sub> formation by the keV N <sub>2</sub> <sup>+</sup> irradiation of highly oriented pyrolytic graphite surfaces. <i>Surface Science</i> , <b>2003</b> , 531, 185-198	1.8	18
122	Excimer laser-induced deposition of copper from Cu(hfac) (TMVS). <i>Applied Surface Science</i> , <b>1995</b> , 86, 509-513	6.7	18
121	Surface contributions to the two-layer structure in the plasma deposition of a-Si : H. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1984</b> , 49, L47-L52		18
120	Antimicrobial Properties of the Ag, Cu Nanoparticle System. <i>Biology</i> , <b>2021</b> , 10,	4.9	18
119	Human alveolar epithelial cell responses to core-shell superparamagnetic iron oxide nanoparticles (SPIONs). <i>Langmuir</i> , <b>2015</b> , 31, 3829-39	4	17
118	Angle-resolved x-ray photoelectron spectroscopy comparison of copper/Teflon AF1600 and aluminum/Kapton metal diffusion. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 108-111	2.5	17
117	Surface Plasmon Resonance Determination of the Binding Mechanisms of L-Cysteine and Mercaptoundecanoic Acid on Gold. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6712-6718	3.8	16
116	Stabilization of platinum nanoparticles on graphene by non-invasive functionalization. <i>Carbon</i> , <b>2009</b> , 47, 2233-2238	10.4	16
115	Protein Corona Formation on Magnetite Nanoparticles: Effects of Culture Medium Composition, and Its Consequences on Superparamagnetic Nanoparticle Cytotoxicity. <i>Journal of Biomedical Nanotechnology</i> , <b>2015</b> , 11, 828-40	4	15
114	Multi-Excitation Entropy, Entropy-Enthalpy Relations, and their Impact on Catalysis. <i>Catalysis Letters</i> , <b>2011</b> , 141, 954-957	2.8	15
113	Adhesion to tooth structure mediated by contemporary bonding systems. <i>Dental Clinics of North America</i> , <b>2007</b> , 51, 677-94, vii	3.3	15
112	A comparison of electronegativity series. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1988</b> , 46, 173-177	1.7	15
111	Unusual room-temperature intermixing and oxidation in copper deposited on a fluorinated amorphous silicon system. <i>Applied Physics Letters</i> , <b>1988</b> , 52, 191-193	3.4	15
110	Copper metallization of Teflon AF1600, using evaporation and sputtering, for multilevel interconnect devices. <i>Microelectronic Engineering</i> , <b>1997</b> , 33, 217-221	2.5	14
109	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> , <b>1998</b> , 126, 198-204	6.7	14
108	Comment on "Mechanism of HF etching of silicon surfaces: A theoretical understanding of hydrogen passivation". <i>Physical Review Letters</i> , <b>1991</b> , 66, 1647	7.4	14
107	Multiplet contributions to the 2p <sub>3/2</sub> x-ray photoemission spectrum of CuO. <i>Physical Review B</i> , <b>1989</b> , 39, 1461-1464	3.3	14

106	PtRu Alloy Nanoparticles. 2. Chemical and Electrochemical Surface Characterization for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 23120-23128	3.8	13
105	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> , <b>2010</b> , 350, 16-21	9.3	13
104	X-ray photoelectron spectroscopic evidence for CuII in superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> ceramic. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1989</b> , 48, C7-C12	1.7	13
103	Impact wear phenomena in thin polymer films. <i>Wear</i> , <b>1975</b> , 32, 181-194	3.5	13
102	Photodegradation of teflon AF1600 during XPS analysis. <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 70, 1201-1207	2.9	12
101	The surface modification of nanoporous SiO <sub>x</sub> thin films with a monofunctional organosilane. <i>Applied Surface Science</i> , <b>2005</b> , 252, 1197-1201	6.7	12
100	A nuclear scattering evaluation of organometallic bonding in the adhesion of metallization to polymers. <i>Journal of Colloid and Interface Science</i> , <b>1984</b> , 97, 410-422	9.3	12
99	Water permeation of polymer films. II. Dual-mode absorption in teflon FEP. <i>Journal of Applied Polymer Science</i> , <b>1979</b> , 24, 1997-2003	2.9	12
98	The possibility of further imidization in polyimide film. <i>Journal of Polymer Science, Polymer Physics Edition</i> , <b>1974</b> , 12, 629-632		12
97	Optical breakdown processing: Influence of the ambient gas on the properties of the nanostructured Si-based layers formed. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 5722-5728	2.5	11
96	The manipulation of Cu cluster dimensions on highly oriented pyrolytic graphite surfaces by low energy ion beam irradiation. <i>Surface Science</i> , <b>2003</b> , 536, 67-74	1.8	11
95	The enhancement of the adhesion of copper layers to Dow Cyclotene 3022 through metal sputtering. <i>Applied Surface Science</i> , <b>2001</b> , 180, 200-208	6.7	11
94	Ligand-field theory of inductive effects in the photoelectron spectra of transition-metal compounds. <i>Physical Review B</i> , <b>1986</b> , 34, 5130-5135	3.3	11
93	The correlation of N <sup>15</sup> H <sup>1</sup> i.r. frequencies in amines. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , <b>1987</b> , 43, 747-751		11
92	Time-dependent changes in the Si <sup>29</sup> H <sup>1</sup> vibrational spectrum of amorphous silicon, a-Si:H. <i>Journal of Non-Crystalline Solids</i> , <b>1984</b> , 66, 93-98	3.9	11
91	Infrared investigations of hydrogenated amorphous silicon. I. Inductive spectral shifts as predicted from monomer data. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1985</b> , 51, 285-293		11
90	Water permeation of polymer films. IV. Teflon FEP. <i>Journal of Applied Polymer Science</i> , <b>1982</b> , 27, 3893-3903	2.0	11
89	Preparation of large-scale, durable, superhydrophobic PTFE films using rough glass templates. <i>Surface and Interface Analysis</i> , <b>2017</b> , 49, 1422-1430	1.5	10

88	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> , <b>2001</b> , 282, 165-172	3.9	10
87	A multitechnique analysis of the outermost layers of the Teflon PFA surface. <i>Applied Surface Science</i> , <b>1995</b> , 84, 227-235	6.7	10
86	Metallization of polythiophenes III. Interaction of vapor-deposited Cu and Ni with poly(3-octyloxy-methylthiophene) (P3O4MT). <i>Synthetic Metals</i> , <b>1995</b> , 72, 81-88	3.6	10
85	Predictions of Si-H stretching vibrations on atmospheric contamination of hydrogenated amorphous silicon. <i>Solar Energy Materials and Solar Cells</i> , <b>1986</b> , 13, 441-446		10
84	Evolution of the vibrational spectra of hydrogenated-amorphous-silicon thin films having columnar morphology. <i>Physical Review B</i> , <b>1987</b> , 35, 1260-1266	3.3	10
83	The Determination of Trace Inorganic Contaminants in Polyimides. <i>IEEE Transactions on Electrical Insulation</i> , <b>1983</b> , EI-18, 369-373		10
82	Washing effect on superparamagnetic iron oxide nanoparticles. <i>Data in Brief</i> , <b>2016</b> , 7, 1296-301	1.2	10
81	Photoacoustic Fourier transform infrared spectroscopy of nanoporous SiO <sub>2</sub> /Si thin films with varying porosities. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 114310	2.5	9
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