

# Edward Sacher

## List of Publications by Year in descending order

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219  
papers

8,414  
citations

50276

46  
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84  
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220  
docs citations

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times ranked

10660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Chemistry of Gold Nanoparticles Produced by Laser Ablation in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16864-16869.	2.6	564
2	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> , 2008, 46, 196-205.	10.3	494
3	Surface Diffusion and Coalescence of Mobile Metal Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9703-9711.	2.6	343
4	Stabilization and Size Control of Gold Nanoparticles during Laser Ablation in Aqueous Cyclodextrins. <i>Journal of the American Chemical Society</i> , 2004, 126, 7176-7177.	13.7	335
5	Spectroscopic Evidence for $\pi$ - $\pi$ Interaction between Poly(diallyl dimethylammonium) Chloride and Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4481-4484.	2.6	265
6	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.	21.0	232
7	Surface plasmon resonance detection of <i>E. coli</i> and methicillin-resistant <i>S. aureus</i> using bacteriophages. <i>Biosensors and Bioelectronics</i> , 2012, 37, 24-29.	10.1	186
8	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.	2.3	179
9	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.	3.1	168
10	Kinetics of epoxy cure: (1) The system bisphenol-A diglycidyl ether/m-phenylene diamine. <i>Polymer</i> , 1971, 12, 335-343.	3.8	145
11	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, 860-862.	3.5	145
12	XPS Demonstration of $\pi$ - $\pi$ 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.	6.7	138
13	Functionalization of Multiwalled Carbon Nanotubes by Mild Aqueous Sonication. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7788-7794.	2.6	129
14	Fluoropolymer metallization for microelectronic applications. <i>Progress in Surface Science</i> , 1994, 47, 273-300.	8.3	125
15	S-passivated InP (100) (1 $\times$ 1) surface prepared by a wet chemical process. <i>Applied Physics Letters</i> , 1992, 60, 2669-2671.	3.3	117
16	Water permeation of polymer films. I. Polyimide. <i>Journal of Applied Polymer Science</i> , 1979, 23, 2355-2364.	2.6	113
17	$s$ - $p$ 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.	1.9	111
18	Synthesis and Characterization of Platinum Nanowire-Carbon Nanotube Heterostructures. <i>Chemistry of Materials</i> , 2007, 19, 6376-6378.	6.7	100

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19	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.	3.1	90
20	Kinetics of epoxy cure: 2. The system bisphenol-A diglycidyl ether/polyamide. <i>Polymer</i> , 1972, 13, 455-458.	3.8	88
21	X-ray photoelectron spectra of antimony oxides. <i>Applied Surface Science</i> , 1989, 40, 175-177.	6.1	83
22	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.	3.1	79
23	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.	3.9	78
24	Fluorine incorporation in plasma-polymerized octafluorocyclobutane, hexafluoropropylene and trifluoroethylene. <i>Polymer</i> , 2001, 42, 3761-3769.	3.8	77
25	A photoacoustic FTIRS study of the chemical modifications of human dentin surfaces. <i>Biomaterials</i> , 2001, 22, 793-797.	11.4	74
26	Antimicrobial Properties of the Ag, Cu Nanoparticle System. <i>Biology</i> , 2021, 10, 137.	2.8	74
27	Water permeation of polymer films. III. High-temperature polyimides. <i>Journal of Applied Polymer Science</i> , 1981, 26, 679-686.	2.6	71
28	A theoretical investigation of the interactions between thiophene and vanadium, chromium, copper, and gold. <i>Journal of Chemical Physics</i> , 1995, 102, 6153-6158.	3.0	71
29	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, 187-194.	3.7	70
30	Controlled Chemical Functionalization of Multiwalled Carbon Nanotubes by Kiloelectronvolt Argon Ion Treatment and Air Exposure. <i>Langmuir</i> , 2005, 21, 8539-8545.	3.5	70
31	Repelling hot water from superhydrophobic surfaces based on carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16953-16960.	10.3	70
32	Kinetics of epoxy cure: 3. The systems bisphenol-A epoxides/dicy. <i>Polymer</i> , 1973, 14, 91-95.	3.8	69
33	Fluoropolymer surface modification for enhanced evaporated metal adhesion. <i>Journal of Adhesion Science and Technology</i> , 1994, 8, 1129-1141.	2.6	63
34	A tapping mode AFM study of collapse and denaturation in dentinal collagen. <i>Dental Materials</i> , 2001, 17, 284-288.	3.5	63
35	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> , 2011, 115, 1436-1443.	3.1	62
36	How to repel hot water from a superhydrophobic surface?. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10639-10646.	10.3	62

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37	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.	1.9	61
38	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.	6.1	60
39	Durable superhydrophobic PTFE films through the introduction of micro- and nanostructured pores. <i>Applied Surface Science</i> , 2015, 339, 151-157.	6.1	60
40	Bacteriophages: biosensing tools for multi-drug resistant pathogens. <i>Analyst</i> , The, 2014, 139, 1224.	3.5	59
41	Nanoscale surface characterization of biphasic calcium phosphate, with comparisons to calcium hydroxyapatite and $\text{I}^2$ -tricalcium phosphate bioceramics. <i>Journal of Colloid and Interface Science</i> , 2014, 420, 182-188.	9.4	58
42	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	56
43	Evidence of the Interaction of Evaporated Pt Nanoparticles with Various Treated Surfaces of Highly Oriented Pyrolytic Graphite. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8348-8356.	2.6	55
44	Nitric Oxide Delivery by Core/Shell Superparamagnetic Nanoparticle Vehicles with Enhanced Biocompatibility. <i>Langmuir</i> , 2012, 28, 12879-12885.	3.5	53
45	A mediatorless biosensor for putrescine using multiwalled carbon nanotubes. <i>Analytical Biochemistry</i> , 2005, 336, 305-311.	2.4	49
46	A photoacoustic FTIRS study of the chemical modifications of human dentin surfaces: I. Demineralization. <i>Biomaterials</i> , 2001, 22, 787-792.	11.4	48
47	Angle-resolved XPS study of plasma-treated teflon PFA surfaces. <i>Surface and Interface Analysis</i> , 1995, 23, 99-104.	1.8	47
48	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.	3.1	46
49	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.	3.1	46
50	X-Ray photoelectron study of the plasma fluorination of lignocellulose. <i>Applied Surface Science</i> , 1990, 44, 165-169.	6.1	45
51	Quantitative assessment of surface roughness as measured by AFM: application to polished human dentin. <i>Applied Surface Science</i> , 2001, 183, 205-215.	6.1	45
52	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.	3.1	45
53	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.	3.9	44
54	The modeling of excimer laser particle removal from hydrophilic silicon surfaces. <i>Journal of Applied Physics</i> , 2000, 87, 3618-3627.	2.5	44

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55	Platinum Nanoparticle Interaction with Chemically Modified Highly Oriented Pyrolytic Graphite Surfaces. <i>Chemistry of Materials</i> , 2006, 18, 1811-1816.	6.7	42
56	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.	2.1	41
57	X-ray photoelectron spectroscopy studies of the evaporated aluminum/corona-treated polyethylene terephthalate interface. <i>Applied Surface Science</i> , 1998, 135, 339-349.	6.1	41
58	In vitro biocompatibility assessment of functionalized magnetite nanoparticles: Biological and cytotoxicological effects. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1637-1646.	4.0	40
59	CO <sub>2</sub> laser-assisted removal of submicron particles from solid surfaces. <i>Journal of Applied Physics</i> , 1996, 79, 2857-2862.	2.5	39
60	The estimation of the average dimensions of deposited clusters from XPS emission intensity ratios. <i>Applied Surface Science</i> , 2001, 173, 134-139.	6.1	39
61	Asymmetries in Transition Metal XPS Spectra: Metal Nanoparticle Structure, and Interaction with the Graphene-Structured Substrate Surface. <i>Langmuir</i> , 2010, 26, 3807-3814.	3.5	39
62	Oxidation, Deformation, and Destruction of Carbon Nanotubes in Aqueous Ceric Sulfate. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1400-1407.	2.6	38
63	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.	6.1	38
64	The Surface Modification of Pure Cellulose Paper Induced by Low-Pressure Nitrogen Plasma Treatment. <i>Plasmas and Polymers</i> , 1998, 3, 61-76.	1.5	37
65	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, 19329-19334.	2.6	37
66	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.	3.1	37
67	A relation between toughness and the dynamic mechanical properties of polymer films. <i>Journal of Applied Polymer Science</i> , 1975, 19, 1421-1425.	2.6	36
68	Moisture-dependent renaturation of collagen in phosphoric acid etched human dentin. , 1998, 42, 549-553.		36
69	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, 334-340.	10.1	35
70	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> , 2012, 14, 8232.	2.8	34
71	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, 292-297.	9.4	34
72	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, 1444-1455.	3.4	33

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73	Auger electron spectroscopy of deposited silane layers. <i>Journal of Colloid and Interface Science</i> , 1978, 67, 538-540.	9.4	32
74	Surface reaction during the argon ion sputter cleaning of surface oxidized crystalline silicon (111). <i>Surface Science</i> , 1989, 217, L377-L381.	1.9	32
75	Nitrogen plasma treatment of the dow Cyclotene 3022 surface and its reaction with evaporated copper. <i>Applied Surface Science</i> , 2001, 177, 85-95.	6.1	31
76	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.	3.1	31
77	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.	6.1	30
78	Physicochemical Characterization of Polyvinyl Pyrrolidone: A Tale of Two Polyvinyl Pyrrolidones. <i>ACS Omega</i> , 2020, 5, 30461-30467.	3.5	30
79	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, 203-211.	2.8	28
80	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.	4.7	28
81	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.	6.7	27
82	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> , 1988, 58, 385-388.	0.6	26
83	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.	2.1	25
84	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
85	Structure and Morphology of Co Nanoparticles Deposited onto Highly Oriented Pyrolytic Graphite. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17200-17205.	3.1	25
86	Interfacial reaction between evaporated copper and Dow Cyclotene 3022. <i>Applied Surface Science</i> , 2000, 165, 116-126.	6.1	24
87	Excimer laser-induced deposition of copper from Cu(hfac) (TMVS). <i>Applied Surface Science</i> , 1995, 86, 509-513.	6.1	23
88	The copper/plasma-polymerized octofluorocyclobutane interface. <i>Polymer</i> , 2001, 42, 4299-4307.	3.8	23
89	Excimer laser manipulation and patterning of gold nanoparticles on the SiO <sub>2</sub> /Si surface. <i>Journal of Applied Physics</i> , 2004, 95, 5023-5026.	2.5	23
90	Surface plasmons in Drude metals. <i>Surface Science</i> , 2004, 569, 47-55.	1.9	23

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91	Adhesion to Tooth Structure Mediated by Contemporary Bonding Systems. Dental Clinics of North America, 2007, 51, 677-694.	1.8	23
92	Physicochemical surface characterizations of four dental CAD/CAM lithium disilicate-based glass ceramics on HF etching: An XPS study. Ceramics International, 2020, 46, 1411-1418.	4.8	23
93	The surface structure of Dow Cyclotene 3022, as determined by photoacoustic FTIR, confocal Raman and photoelectron spectroscopies. Applied Surface Science, 2000, 165, 15-22.	6.1	22
94	The applicability of angle-resolved XPS to the characterization of clusters on surfaces. Surface Science, 2003, 536, 139-144.	1.9	22
95	Argon ion treatment of the Dow Cyclotene 3022 surface and its effect on the adhesion of evaporated copper. Applied Surface Science, 2001, 173, 30-39.	6.1	21
96	Ag NP catalysis of Cu ions in the preparation of AgCu NPs and the mechanism of their enhanced antibacterial efficacy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127831.	4.7	21
97	Surface contributions to the two-layer structure in the plasma deposition of a-Si : H. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1984, 49, L47-L52.	0.6	20
98	The possibility of further imidization in polyimide film. Journal of Polymer Science, Polymer Physics Edition, 1974, 12, 629-632.	1.0	19
99	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. Surface Science, 2003, 531, 185-198.	1.9	19
100	Water permeation of polymer films. II. Dual-mode absorption in teflon FEP. Journal of Applied Polymer Science, 1979, 24, 1997-2003.	2.6	18
101	Angle-resolved x-ray photoelectron spectroscopy comparison of copper/Teflon AF1600 and aluminum/Kapton metal diffusion. Journal of Applied Physics, 1998, 83, 108-111.	2.5	18
102	Surface Plasmon Resonance Determination of the Binding Mechanisms of <sc>Cysteine and Mercaptoundecanoic Acid on Gold. Journal of Physical Chemistry C, 2013, 117, 6712-6718.	3.1	18
103	Human Alveolar Epithelial Cell Responses to Coreâ€œShell Superparamagnetic Iron Oxide Nanoparticles (SPIONs). Langmuir, 2015, 31, 3829-3839.	3.5	18
104	Protein Corona Formation on Magnetite Nanoparticles: Effects of Culture Medium Composition, and Its Consequences on Superparamagnetic Nanoparticle Cytotoxicity. Journal of Biomedical Nanotechnology, 2015, 11, 828-840.	1.1	18
105	A comparison of electronegativity series. Journal of Electron Spectroscopy and Related Phenomena, 1988, 46, 173-177.	1.7	17
106	Chemical and morphological characterizations of CoNi alloy nanoparticles formed by co-evaporation onto highly oriented pyrolytic graphite. Journal of Colloid and Interface Science, 2010, 350, 16-21.	9.4	17
107	Impact wear phenomena in thin polymer films. Wear, 1975, 32, 181-194.	3.1	16
108	Water permeation of polymer films. IV. Teflon FEP. Journal of Applied Polymer Science, 1982, 27, 3893-3902.	2.6	16

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109	A nuclear scattering evaluation of organometallic bonding in the adhesion of metallization to polymers. <i>Journal of Colloid and Interface Science</i> , 1984, 97, 410-422.	9.4	16
110	Multiplet contributions to the 2p <sub>3/2</sub> x-ray photoemission spectrum of CuO. <i>Physical Review B</i> , 1989, 39, 1461-1464.	3.2	16
111	Comment on "Mechanism of HF etching of silicon surfaces: A theoretical understanding of hydrogen passivation". <i>Physical Review Letters</i> , 1991, 66, 1647-1647.	7.8	16
112	Stabilization of platinum nanoparticles on graphene by non-invasive functionalization. <i>Carbon</i> , 2009, 47, 2233-2238.	10.3	16
113	Unusual room-temperature intermixing and oxidation in copper deposited on a fluorinated amorphous silicon system. <i>Applied Physics Letters</i> , 1988, 52, 191-193.	3.3	15
114	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.	6.1	15
115	Multi-Excitation Entropy, Entropy-Enthalpy Relations, and their Impact on Catalysis. <i>Catalysis Letters</i> , 2011, 141, 954-957.	2.6	15
116	PtRu Alloy Nanoparticles. 2. Chemical and Electrochemical Surface Characterization for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23120-23128.	3.1	15
117	Copper metallization of Teflon AF1600, using evaporation and sputtering, for multilevel interconnect devices. <i>Microelectronic Engineering</i> , 1997, 33, 217-221.	2.4	14
118	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	14
119	Preparation of large-scale, durable, superhydrophobic PTFE films using rough glass templates. <i>Surface and Interface Analysis</i> , 2017, 49, 1422-1430.	1.8	14
120	Carbonium Ions. XX. Acid-Catalyzed Cleavage Reactions. <i>Journal of the American Chemical Society</i> , 1965, 87, 5120-5123.	13.7	13
121	Ligand-field theory of inductive effects in the photoelectron spectra of transition-metal compounds. <i>Physical Review B</i> , 1986, 34, 5130-5135.	3.2	13
122	X-ray photoelectron spectroscopic evidence for CuIII in superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> ceramic. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1989, 48, C7-C12.	1.7	13
123	Photodegradation of teflon AF1600 during XPS analysis. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1201-1207.	2.6	13
124	The surface modification of nanoporous SiO <sub>x</sub> thin films with a monofunctional organosilane. <i>Applied Surface Science</i> , 2005, 252, 1197-1201.	6.1	13
125	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.	3.1	13
126	Time-dependent changes in the Si-H vibrational spectrum of amorphous silicon, a-Si:H. <i>Journal of Non-Crystalline Solids</i> , 1984, 66, 93-98.	3.1	12



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127	The correlation of N <sup>i</sup> -H <sup>n</sup> i.r. frequencies in amines. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1987, 43, 747-751.	0.1	12
128	A multitechnique analysis of the outermost layers of the Teflon PFA surface. <i>Applied Surface Science</i> , 1995, 84, 227-235.	6.1	12
129	The enhancement of the adhesion of copper layers to Dow Cyclotene 3022 through metal sputtering. <i>Applied Surface Science</i> , 2001, 180, 200-208.	6.1	12
130	Photoacoustic Fourier transform infrared spectroscopy of nanoporous SiO <sub>2</sub> /Si thin films with varying porosities. <i>Journal of Applied Physics</i> , 2005, 98, 114310.	2.5	12
131	Washing effect on superparamagnetic iron oxide nanoparticles. <i>Data in Brief</i> , 2016, 7, 1296-1301.	1.0	12
132	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.	6.1	12
133	A theory of non-adiabatic electron-transfer in aqueous solution. <i>Transactions of the Faraday Society</i> , 1963, 59, 396.	0.9	11
134	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> , 1985, 51, 285-293.	0.6	11
135	Relationship between Auger and autoionization processes. <i>Physical Review B</i> , 1989, 39, 8242-8246.	3.2	11
136	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.	1.9	11
137	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.	3.1	11
138	Mechanochemical aspects of repetitive impacts and sliding on polymers. <i>Journal of Applied Polymer Science</i> , 1979, 24, 1503-1514.	2.6	10
139	The Determination of Trace Inorganic Contaminants in Polyimides. <i>IEEE Transactions on Electrical Insulation</i> , 1983, EI-18, 369-373.	0.8	10
140	Predictions of Si <sup>i</sup> -H <sup>n</sup> stretching vibrations on atmospheric contamination of hydrogenated amorphous silicon. <i>Solar Energy Materials and Solar Cells</i> , 1986, 13, 441-446.	0.4	10
141	Evolution of the vibrational spectra of hydrogenated-amorphous-silicon thin films having columnar morphology. <i>Physical Review B</i> , 1987, 35, 1260-1266.	3.2	10
142	Spectral noise removal by digital filtering and its application to surface analysis. <i>Applied Surface Science</i> , 1992, 55, 159-164.	6.1	10
143	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.	3.9	10
144	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.	3.1	10

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