

# David G Castner

## List of Publications by Year in descending order

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132  
papers

10,781  
citations

31949

53  
h-index

30894

102  
g-index

137  
all docs

137  
docs citations

137  
times ranked

11513  
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray Photoelectron Spectroscopy Sulfur 2p Study of Organic Thiol and Disulfide Binding Interactions with Gold Surfaces. <i>Langmuir</i> , 1996, 12, 5083-5086.	1.6	1,215
2	Biomedical surface science: Foundations to frontiers. <i>Surface Science</i> , 2002, 500, 28-60.	0.8	1,205
3	XPS O 1s binding energies for polymers containing hydroxyl, ether, ketone and ester groups. <i>Surface and Interface Analysis</i> , 1991, 17, 267-272.	0.8	554
4	Characterization of Adsorbed Protein Films by Time-of-Flight Secondary Ion Mass Spectrometry with Principal Component Analysis. <i>Langmuir</i> , 2001, 17, 4649-4660.	1.6	379
5	Time-of-flight secondary ion mass spectrometry: techniques and applications for the characterization of biomaterial surfaces. <i>Biomaterials</i> , 2003, 24, 3635-3653.	5.7	377
6	Influence of PEG Architecture on Protein Adsorption and Conformation. <i>Langmuir</i> , 2005, 21, 12327-12332.	1.6	312
7	PEO-like plasma polymerized tetraglyme surface interactions with leukocytes and proteins: in vitro and in vivo studies. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002, 13, 367-390.	1.9	286
8	Surface Coverage and Structure of Mixed DNA/Alkylthiol Monolayers on Gold: Characterization by XPS, NEXAFS, and Fluorescence Intensity Measurements. <i>Analytical Chemistry</i> , 2006, 78, 3316-3325.	3.2	264
9	Surface Characterization of Mixed Self-Assembled Monolayers Designed for Streptavidin Immobilization. <i>Langmuir</i> , 2001, 17, 2807-2816.	1.6	190
10	Multivariate analysis strategies for processing ToF-SIMS images of biomaterials. <i>Biomaterials</i> , 2007, 28, 2412-2423.	5.7	176
11	Multivariate Analysis of ToF-SIMS Data from Multicomponent Systems: The Why, When, and How. <i>Biointerphases</i> , 2012, 7, 49.	0.6	173
12	Characterization of adsorbed protein films by time of flight secondary ion mass spectrometry. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 57, 432-440.	3.0	156
13	Information from complexity: Challenges of TOF-SIMS data interpretation. <i>Applied Surface Science</i> , 2006, 252, 6860-6868.	3.1	153
14	Probing the Orientation of Surface-Immobilized Immunoglobulin G by Time-of-Flight Secondary Ion Mass Spectrometry. <i>Langmuir</i> , 2004, 20, 1877-1887.	1.6	152
15	Maximizing information obtained from secondary ion mass spectra of organic thin films using multivariate analysis. <i>Surface Science</i> , 2004, 570, 78-97.	0.8	144
16	X-ray absorption spectroscopy, x-ray photoelectron spectroscopy, and analytical electron microscopy studies of cobalt catalysts. 2. Hydrogen reduction properties. <i>The Journal of Physical Chemistry</i> , 1990, 94, 819-828.	2.9	142
17	Hybridization Behavior of Mixed DNA/Alkylthiol Monolayers on Gold: Characterization by Surface Plasmon Resonance and <sup>32</sup> P Radiometric Assay. <i>Analytical Chemistry</i> , 2006, 78, 3326-3334.	3.2	134
18	Static time-of-flight secondary ion mass spectrometry and x-ray photoelectron spectroscopy characterization of adsorbed albumin and fibronectin films. <i>Surface and Interface Analysis</i> , 2001, 31, 724-733.	0.8	131

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19	Sum frequency generation and solid-state NMR study of the structure, orientation, and dynamics of polystyrene-adsorbed peptides. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13288-13293.	3.3	129
20	Probing the Orientation and Conformation of $\alpha$ -Helix and $\beta$ -Strand Model Peptides on Self-Assembled Monolayers Using Sum Frequency Generation and NEXAFS Spectroscopy. Langmuir, 2010, 26, 3433-3440.	1.6	124
21	X-ray absorption spectroscopy, x-ray photoelectron spectroscopy, and analytical electron microscopy studies of cobalt catalysts. 1. Characterization of calcined catalysts. The Journal of Physical Chemistry, 1989, 93, 3188-3194.	2.9	115
22	Characterizing multicomponent adsorbed protein films using electron spectroscopy for chemical analysis, time-of-flight secondary ion mass spectrometry, and radiolabeling: capabilities and limitations. Biomaterials, 2003, 24, 1897-1908.	5.7	107
23	X-ray Photoelectron Spectroscopy Investigation of the Nitrogen Species in Photoactive Perfluorophenylazide-Modified Surfaces. Journal of Physical Chemistry C, 2014, 118, 376-383.	1.5	106
24	Antigen Binding Forces of Single Antilysozyme Fv Fragments Explored by Atomic Force Microscopy. Langmuir, 2005, 21, 5517-5523.	1.6	105
25	Time-of-Flight Secondary Ion Mass Spectrometry Analysis of Conformational Changes in Adsorbed Protein Films. Langmuir, 2002, 18, 4090-4097.	1.6	103
26	ToF-SIMS Depth Profiling of Cells: $z$ -Correction, 3D Imaging, and Sputter Rate of Individual NIH/3T3 Fibroblasts. Analytical Chemistry, 2012, 84, 4880-4885.	3.2	101
27	Interpretation of Static Time-of-Flight Secondary Ion Mass Spectra of Adsorbed Protein Films by Multivariate Pattern Recognition. Analytical Chemistry, 2002, 74, 1824-1835.	3.2	98
28	Structure and DNA Hybridization Properties of Mixed Nucleic Acid/Maleimide- $\gamma$ -Ethylene Glycol Monolayers. Analytical Chemistry, 2007, 79, 4390-4400.	3.2	94
29	Multitechnique Characterization of Self-Assembled Carboxylic Acid-Terminated Alkanethiol Monolayers on Nanoparticle and Flat Gold Surfaces. Journal of Physical Chemistry C, 2011, 115, 9432-9441.	1.5	94
30	Inhibition of monocyte adhesion and fibrinogen adsorption on glow discharge plasma deposited tetraethylene glycol dimethyl ether. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 961-978.	1.9	90
31	Surface characterization of butyl methacrylate polymers by XPS and static SIMS. Surface and Interface Analysis, 1990, 15, 479-486.	0.8	88
32	Static time-of-flight secondary ion mass spectrometry and x-ray photoelectron spectroscopy characterization of adsorbed albumin and fibronectin films. Surface and Interface Analysis, 2001, 31, 724-733.	0.8	85
33	Probing the Orientation of Surface-Immobilized Protein G B1 Using ToF-SIMS, Sum Frequency Generation, and NEXAFS Spectroscopy. Langmuir, 2010, 26, 16434-16441.	1.6	83
34	Simultaneous Modification of Bottom-Contact Electrode and Dielectric Surfaces for Organic Thin-Film Transistors Through Single-Component Spin-Cast Monolayers. Advanced Functional Materials, 2011, 21, 1476-1488.	7.8	76
35	Immobilized Antibody Orientation Analysis Using Secondary Ion Mass Spectrometry and Fluorescence Imaging of Affinity-Generated Patterns. Analytical Chemistry, 2010, 82, 2947-2958.	3.2	75
36	SFG analysis of surface bound proteins: a route towards structure determination. Physical Chemistry Chemical Physics, 2013, 15, 12516.	1.3	75

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37	TOF-SIMS 3D Imaging of Native and Non-Native Species within HeLa Cells. <i>Analytical Chemistry</i> , 2013, 85, 10869-10877.	3.2	75
38	Characterization of the Structure of Binary and Ternary Adsorbed Protein Films Using Electron Spectroscopy for Chemical Analysis, Time-of-Flight Secondary Ion Mass Spectrometry, and Radiolabeling. <i>Langmuir</i> , 2003, 19, 1708-1715.	1.6	73
39	Simulation and Modeling of Self-Assembled Monolayers of Carboxylic Acid Thiols on Flat and Nanoparticle Gold Surfaces. <i>Analytical Chemistry</i> , 2011, 83, 6704-6712.	3.2	73
40	The effect of polystyrene sodium sulfonate grafting on polyethylene terephthalate artificial ligaments on in vitro mineralisation and in vivo bone tissue integration. <i>Biomaterials</i> , 2013, 34, 7048-7063.	5.7	72
41	Advances in time-of-flight secondary ion mass spectrometry analysis of protein films. <i>Surface and Interface Analysis</i> , 2006, 38, 1386-1392.	0.8	70
42	ToF-SIMS Analysis of Adsorbed Proteins: Principal Component Analysis of the Primary Ion Species Effect on the Protein Fragmentation Patterns. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24247-24255.	1.5	70
43	X-ray photoelectron spectroscopy characterization of gold nanoparticles functionalized with amine-terminated alkanethiols. <i>Biointerphases</i> , 2011, 6, 98-104.	0.6	70
44	Functionalized Poly(ethylene glycol)-Grafted Polysiloxane Monolayers for Control of Protein Binding. <i>Langmuir</i> , 2002, 18, 3255-3262.	1.6	67
45	Multitechnique Surface Characterization of Derivatization Efficiencies for Hydroxyl-Terminated Self-Assembled Monolayers. <i>Langmuir</i> , 1998, 14, 3545-3550.	1.6	65
46	Exploring the Surface Sensitivity of TOF-Secondary Ion Mass Spectrometry by Measuring the Implantation and Sampling Depths of Bi <sup>n</sup> and C <sup>60</sup> Ions in Organic Films. <i>Analytical Chemistry</i> , 2012, 84, 365-372.	3.2	64
47	Effects of oxygen plasma treatment on the surface of bisphenol A polycarbonate: a study using SIMS, principal component analysis, ellipsometry, XPS and AFM nanoindentation. <i>Surface and Interface Analysis</i> , 2006, 38, 1186-1197.	0.8	60
48	Plasma-Modified PTFE for Biological Applications: Correlation between Protein-Resistant Properties and Surface Characteristics. <i>Plasma Processes and Polymers</i> , 2008, 5, 661-671.	1.6	59
49	XPS and ToF-SIMS Investigation of $\alpha$ -Helical and $\beta$ -Strand Peptide Adsorption onto SAMs. <i>Langmuir</i> , 2010, 26, 3423-3432.	1.6	58
50	Amide or Amine: Determining the Origin of the 3300 cm <sup>-1</sup> NH Mode in Protein SFG Spectra Using <sup>15</sup> N Isotope Labels. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15423-15426.	1.2	57
51	Biomolecules and surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 2306-2317.	0.9	56
52	Preserving the structure of adsorbed protein films for time-of-flight secondary ion mass spectrometry analysis. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 67A, 179-190.	3.0	56
53	Quantifying the Impact of Nanoparticle Coatings and Nonuniformities on XPS Analysis: Gold/Silver Core-Shell Nanoparticles. <i>Analytical Chemistry</i> , 2016, 88, 3917-3925.	3.2	55
54	Surface characterization of a poly(styrene/ <i>p</i> -hydroxystyrene) copolymer series using x-ray photoelectron spectroscopy, static secondary ion mass spectrometry, and chemical derivatization techniques. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 2274-2282.	0.9	54

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55	Surface chemical composition and fibrinogen adsorption-retention of fluoropolymer films deposited from an RF glow discharge. <i>Plasmas and Polymers</i> , 1996, 1, 299-326.	1.5	52
56	Probing the Orientation of Electrostatically Immobilized Protein G B1 by Time-of-Flight Secondary Ion Spectrometry, Sum Frequency Generation, and Near-Edge X-ray Adsorption Fine Structure Spectroscopy. <i>Langmuir</i> , 2012, 28, 2107-2112.	1.6	52
57	Analysis of Poly(amino acids) by Static Time-of-Flight Secondary Ion Mass Spectrometry (TOF-SIMS). <i>Surface Science Spectra</i> , 2001, 8, 163-184.	0.3	51
58	Static Secondary Ion Mass Spectrometry and X-Ray Photoelectron Spectroscopy of Deuterium- and Methyl-Substituted Polystyrene. <i>Applied Spectroscopy</i> , 1991, 45, 209-217.	1.2	50
59	Mixed DNA/oligo (ethylene glycol) functionalized gold surfaces improve DNA hybridization in complex media. <i>Biointerphases</i> , 2006, 1, 82-92.	0.6	50
60	Affinity-Based Protein Surface Pattern Formation by Ligand Self-Selection from Mixed Protein Solutions. <i>Advanced Functional Materials</i> , 2009, 19, 3046-3055.	7.8	49
61	Denoising and multivariate analysis of time-of-flight SIMS images. <i>Surface and Interface Analysis</i> , 2003, 35, 640-648.	0.8	48
62	ToF-SIMS imaging and depth profiling of HeLa cells treated with bromodeoxyuridine. <i>Surface and Interface Analysis</i> , 2011, 43, 354-357.	0.8	47
63	ToF-SIMS and XPS Characterization of Protein Films Adsorbed onto Bare and Sodium Styrenesulfonate-Grafted Gold Substrates. <i>Langmuir</i> , 2016, 32, 3207-3216.	1.6	45
64	Method for Determining the Elemental Composition and Distribution in Semiconductor Core-Shell Quantum Dots. <i>Analytical Chemistry</i> , 2011, 83, 866-873.	3.2	41
65	Biomedical surface analysis: Evolution and future directions (Review). <i>Biointerphases</i> , 2017, 12, 02C301.	0.6	41
66	A Solid-State Deuterium NMR and Sum-Frequency Generation Study of the Side-Chain Dynamics of Peptides Adsorbed onto Surfaces. <i>Journal of the American Chemical Society</i> , 2009, 131, 14148-14149.	6.6	40
67	Direct Observation of Phenylalanine Orientations in Statherin Bound to Hydroxyapatite Surfaces. <i>Journal of the American Chemical Society</i> , 2012, 134, 8750-8753.	6.6	39
68	Sodium Dodecyl Sulfate Adsorption onto Positively Charged Surfaces: Monolayer Formation With Opposing Headgroup Orientations. <i>Langmuir</i> , 2013, 29, 12710-12719.	1.6	39
69	Characterization of a Cysteine-Containing Peptide Tether Immobilized onto a Gold Surface. <i>Langmuir</i> , 2002, 18, 4898-4902.	1.6	36
70	Hydration of Sulphobetaine and Tetra(ethylene glycol)-Terminated Self-Assembled Monolayers Studied by Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11550-11556.	1.2	36
71	Thickness Mismatch of Coexisting Liquid Phases in Noncanonical Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2761-2770.	1.2	35
72	A Plasma-Deposited Surface for Cell Sheet Engineering: Advantages over Mechanical Dissociation of Cells. <i>Plasma Processes and Polymers</i> , 2006, 3, 516-523.	1.6	34

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73	Low-energy ion scattering: Determining overlayer thickness for functionalized gold nanoparticles. <i>Surface and Interface Analysis</i> , 2013, 45, 1737-1741.	0.8	33
74	Versailles Project on Advanced Materials and Standards Interlaboratory Study on Measuring the Thickness and Chemistry of Nanoparticle Coatings Using XPS and LEIS. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24070-24079.	1.5	33
75	Grafting of Bioactive Polymers with Various Architectures: A Versatile Tool for Preparing Antibacterial Infection and Biocompatible Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1480-1491.	4.0	31
76	A technique for calculation of shell thicknesses for core-shell nanoparticles from XPS data. <i>Surface and Interface Analysis</i> , 2016, 48, 274-282.	0.8	30
77	Operando Sum-Frequency Generation Detection of Electrolyte Redox Products at Active Si Nanoparticle Li-Ion Battery Interfaces. <i>Chemistry of Materials</i> , 2018, 30, 1239-1248.	3.2	30
78	High-Affinity Interaction between Fibronectin and the Group B Streptococcal C5a Peptidase Is Unaffected by a Naturally Occurring Four-Amino-Acid Deletion That Eliminates Peptidase Activity. <i>Infection and Immunity</i> , 2006, 74, 5739-5746.	1.0	29
79	Pulsed-Plasma-Induced Micropatterning with Alternating Hydrophilic and Hydrophobic Surface Chemistries. <i>Plasma Processes and Polymers</i> , 2008, 5, 129-145.	1.6	28
80	The grafting of a thin layer of poly(sodium styrene sulfonate) onto poly( $\mu$ -caprolactone) surface can enhance fibroblast behavior. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 206.	1.7	28
81	Determining depth profiles from angle dependent x-ray photoelectron spectroscopy: The effects of analyzer lens aperture size and geometry. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 1646-1654.	0.9	27
82	Characterization of sample preparation methods of NIH/3T3 fibroblasts for ToF-SIMS analysis. <i>Biointerphases</i> , 2013, 8, 15.	0.6	27
83	Low-voltage high-performance organic thin film transistors with a thermally annealed polystyrene/hafnium oxide dielectric. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	26
84	Covalent Coupling and Characterization of Supported Lipid Layers. <i>Langmuir</i> , 2003, 19, 8316-8324.	1.6	25
85	Multitechnique characterization of adsorbed peptide and protein orientation: LK310 and Protein G B1. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C5D1-C5D8.	0.6	25
86	ToF-SIMS depth profiling of trehalose: the effect of analysis beam dose on the quality of depth profiles. <i>Surface and Interface Analysis</i> , 2011, 43, 58-61.	0.8	25
87	Characterization of alkyl grafted polyurethane block copolymers by variable takeoff angle X-ray photoelectron spectroscopy. <i>Journal of Biomedical Materials Research Part B</i> , 1990, 24, 605-620.	3.0	23
88	Direct characterization of polymer encapsulated CdSe/CdS/ZnS quantum dots. <i>Surface Science</i> , 2016, 648, 339-344.	0.8	23
89	Predicting the orientation of protein G B1 on hydrophobic surfaces using Monte Carlo simulations. <i>Biointerphases</i> , 2017, 12, 02D401.	0.6	23
90	X-ray absorption spectroscopy and x-ray photoelectron spectroscopy studies of cobalt catalysts. 3. Sulfidation properties in hydrogen sulfide/hydrogen. <i>The Journal of Physical Chemistry</i> , 1991, 95, 6617-6623.	2.9	22

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91	Characterization of sequentially grafted polysaccharide coatings using time-of-flight secondary ion mass spectrometry (ToF-SIMS) and principal component analysis (PCA). <i>Surface and Interface Analysis</i> , 2002, 33, 924-931.	0.8	21
92	Grafting of architecture controlled poly(styrene sodium sulfonate) onto titanium surfaces using bio-adhesive molecules: Surface characterization and biological properties. <i>Biointerphases</i> , 2017, 12, 02C418.	0.6	21
93	Versailles Project on Advanced Materials and Standards interlaboratory study on intensity calibration for x-ray photoelectron spectroscopy instruments using low-density polyethylene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, 063208.	0.9	21
94	Reconstructing accurate ToF-SIMS depth profiles for organic materials with differential sputter rates. <i>Analyst</i> , 2015, 140, 6005-6014.	1.7	20
95	Candle soot-based super-amphiphobic coatings resist protein adsorption. <i>Biointerphases</i> , 2016, 11, 031007.	0.6	20
96	Long-term hydrolytic degradation study of polycaprolactone films and fibers grafted with poly(sodium styrene sulfonate): Mechanism study and cell response. <i>Biointerphases</i> , 2020, 15, 061006.	0.6	20
97	Three-dimensional localization of polymer nanoparticles in cells using ToF-SIMS. <i>Biointerphases</i> , 2016, 11, 02A304.	0.6	19
98	Nonlinear Optical Methods for Characterization of Molecular Structure and Surface Chemistry. <i>Topics in Catalysis</i> , 2018, 61, 1101-1124.	1.3	16
99	Surface characterization of a series of polyurethanes by X-ray photoelectron spectroscopy and contact angle methods. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1989, 1, 191-206.	1.9	15
100	Characterizing protein G B1 orientation and its effect on immunoglobulin G antibody binding using XPS, ToF-SIMS, and quartz crystal microbalance with dissipation monitoring. <i>Biointerphases</i> , 2020, 15, 021002.	0.6	15
101	Use of XPS to Quantify Thickness of Coatings on Nanoparticles. <i>Microscopy Today</i> , 2016, 24, 40-45.	0.2	14
102	A versatile catalyst-free perfluoroaryl azide-aldehyde-amine conjugation reaction. <i>Materials Chemistry Frontiers</i> , 2019, 3, 251-256.	3.2	14
103	Summary Abstract: X-ray photoelectron spectroscopy characterization of polymers for biomedical applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 964-965.	0.9	12
104	Multitechnique characterization of oligo(ethylene glycol) functionalized gold nanoparticles. <i>Biointerphases</i> , 2016, 11, 04B304.	0.6	12
105	ESCA characterization of fluoropolymer film residue on carbon-fiber-reinforced plastic components. <i>Surface and Interface Analysis</i> , 2000, 29, 729-734.	0.8	11
106	COOH-terminated SAMs on gold fabricated from an azobenzene derivative with a 1,2-dithiolane headgroup. <i>Applied Surface Science</i> , 2010, 256, 1832-1836.	3.1	11
107	Developments and Ongoing Challenges for Analysis of Surface-Bound Proteins. <i>Annual Review of Analytical Chemistry</i> , 2021, 14, 389-412.	2.8	11
108	Orientation and conformation of osteocalcin adsorbed onto calcium phosphate and silica surfaces. <i>Biointerphases</i> , 2017, 12, 02D411.	0.6	10

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109	Experimental design and analysis of activators regenerated by electron transfer-atom transfer radical polymerization experimental conditions for grafting sodium styrene sulfonate from titanium substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 05E131.	0.9	9
110	Differential surface activation of the A1 domain of von Willebrand factor. <i>Biointerphases</i> , 2016, 11, 029803.	0.6	9
111	Structure of von Willebrand factor A1 on polystyrene determined from experimental and calculated sum frequency generation spectra. <i>Biointerphases</i> , 2018, 13, 06E411.	0.6	9
112	Surface analysis tools for characterizing biological materials. <i>Chemical Society Reviews</i> , 2020, 49, 3278-3296.	18.7	9
113	Utilization of chromogenic enzyme substrates for signal amplification in multiplexed detection of biomolecules using surface mass spectrometry. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129452.	4.0	9
114	Adsorption of genetically engineered proteins studied by time-of-flight secondary ion mass spectrometry (TOF-SIMS). Part A: data acquisition and principal component analysis (PCA). <i>Surface and Interface Analysis</i> , 2007, 39, 419-426.	0.8	8
115	Surface initiated atom transfer radical polymerization grafting of sodium styrene sulfonate from titanium and silicon substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, 06F103.	0.9	8
116	Stabilization of dry protein coatings with compatible solutes. <i>Biointerphases</i> , 2018, 13, 06E401.	0.6	8
117	Surface analysis: From single crystals to biomaterials. <i>Surface and Interface Analysis</i> , 2018, 50, 981-990.	0.8	7
118	Grafting titanium nitride surfaces with sodium styrene sulfonate thin films. <i>Biointerphases</i> , 2014, 9, 031001.	0.6	6
119	Analysis of early cellular responses of anterior cruciate ligament fibroblasts seeded on different molecular weight polycaprolactone films functionalized by a bioactive poly(sodium styrene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 5	0.6	6
120	Surface Properties and Surface Characterization of Biomaterials. , 2020, , 53-75.		6
121	Evaluation of surface layer stability of surface-modified polyester biomaterials. <i>Biointerphases</i> , 2020, 15, 061010.	0.6	6
122	Vibrational Sum-Frequency Scattering as a Sensitive Approach to Detect Structural Changes in Collagen Fibers Treated with Surfactants. <i>Langmuir</i> , 2019, 35, 7848-7857.	1.6	5
123	Effect of added metal chelating organosilane on mesoporous titanosilicate formation properties. <i>Dalton Transactions</i> , 2003, , 3398.	1.6	4
124	Analysis of the surface density and reactivity of perfluorophenylazide and the impact on ligand immobilization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 021407.	0.9	4
125	Preparation of nanoparticles for surface analysis. , 2020, , 295-347.		4
126	XPS and ToF-SIMS Characterization of New Biodegradable Poly(Peptide-urethane-urea) Block Copolymers. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100894.	3.9	3



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127	Characterizing the Structure of Surface-Immobilized Proteins: A Surface Analysis Approach. ACS Symposium Series, 2012, , 761-779.	0.5	1
128	Characterization of Protein G B1 Immobilized Gold Nanoparticles using Time of Flight Secondary Ion Mass Spectrometry and X-ray Photoelectron Spectroscopy. Microscopy and Microanalysis, 2016, 22, 346-347.	0.2	1
129	Polymer surface analysis: The leadership and contributions of David Briggs. Surface and Interface Analysis, 2020, 52, 1122-1127.	0.8	1
130	Surface analysis for biomaterials and biological systems. AIP Conference Proceedings, 1996, , .	0.3	0
131	Surface Analysis of Disbonded Titanium/Sol-Gel/Polyimide Joints. Journal of Materials Engineering and Performance, 2002, 11, 603-609.	1.2	0
132	Biomedical surface analysis: Celebrating NESAC/Bio's 35th anniversary. Biointerphases, 2018, 13, 06E101.	0.6	0