

# James E Castle

## List of Publications by Year in descending order

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33  
papers

941  
citations

567281

15  
h-index

454955

30  
g-index

34  
all docs

34  
docs citations

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times ranked

1108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical guides for x-ray photoelectron spectroscopy: First steps in planning, conducting, and reporting XPS measurements. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	137
2	Localized corrosion of a 2219 aluminium alloy exposed to a 3.5% NaCl solution. <i>Corrosion Science</i> , 2010, 52, 2855-2866.	6.6	121
3	Peak fitting of the chromium 2p XPS spectrum. <i>Applied Surface Science</i> , 1995, 90, 333-341.	6.1	99
4	Curve-fitting in XPS using extrinsic and intrinsic background structure. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 106, 65-80.	1.7	87
5	Conformational Study and Hydrogen Bonds Detection on Elastin-Related Polypeptides Using X-ray Photoelectron Spectroscopy. <i>Biomacromolecules</i> , 2005, 6, 1299-1309.	5.4	63
6	Comparative study of the native oxide on 316L stainless steel by XPS and ToF-SIMS. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, .	2.1	49
7	The intrinsic asymmetry of photoelectron peaks: dependence on chemical state and role in curve fitting.. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 95, 45-56.	1.7	35
8	Additional in-depth information obtainable from the energy loss features of photoelectron peaks: the oxidation and reduction of an Fe/Cr alloy in oxygen at low partial pressures and ultra high vacuum. <i>Corrosion Science</i> , 1990, 30, 771-798.	6.6	34
9	The intrinsic asymmetry component of the "total background" in XP spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 94, 73-87.	1.7	32
10	The distribution of lithium intercalated in V2O5 thin films studied by XPS and ToF-SIMS. <i>Electrochimica Acta</i> , 2008, 53, 4257-4266.	5.2	32
11	Corrosion behaviour of a 2219 aluminium alloy treated with a chromate conversion coating exposed to a 3.5% NaCl solution. <i>Corrosion Science</i> , 2011, 53, 1214-1223.	6.6	28
12	X-Ray photoelectron spectroscopy investigations of acid-base interactions in adhesion. Part 1. "Estimation of polymer properties by a solvent swelling technique. <i>Journal of Materials Chemistry</i> , 1992, 2, 209-215.	6.7	25
13	Determination of the acidity of carbon-fibre surfaces by means of X-ray photoelectron spectroscopy adsorption isotherms. <i>Journal of Materials Chemistry</i> , 1992, 2, 939.	6.7	20
14	Influence of amino acid specificities on the molecular and supramolecular organization of glycine-rich elastin-like polypeptides in water. <i>Biopolymers</i> , 2011, 95, 702-721.	2.4	20
15	Analysis of the Li KLL Auger Transition on Freshly Exposed Lithium and Lithium Surface Oxide by AES. <i>Surface Science Spectra</i> , 2013, 20, 113-127.	1.3	18
16	Beryllium and Beryllium Oxide by XPS. <i>Surface Science Spectra</i> , 2013, 20, 86-96.	1.3	18
17	The electron spectra of beryllium and beryllium oxide: an XPS, XAES and AES study. <i>Surface and Interface Analysis</i> , 2014, 46, 989-992.	1.8	17
18	Combined effects of solvation and aggregation propensity on the final supramolecular structures adopted by hydrophobic, glycine-rich, elastin-like polypeptides. <i>Biopolymers</i> , 2013, 99, 292-313.	2.4	16

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19	The influence of chemistry on the adhesion at the interface of carbon/epoxy composites. <i>Composites Science and Technology</i> , 1993, 48, 97-102.	7.8	14
20	Accounting for the size of molecules in determination of adsorption isotherms by XPS; exemplified by adsorption of chicken egg albumin on titanium. <i>Surface and Interface Analysis</i> , 2005, 37, 1127-1136.	1.8	11
21	A combined atomic force microscopy (AFM)/X-ray photoelectron spectroscopy (XPS) study of organosilane molecules adsorbed on the aluminium alloy L157. <i>Journal of Materials Chemistry</i> , 1999, 9, 2935-2941.	6.7	9
22	Li <sup>+</sup> distribution into V <sub>2</sub> O <sub>5</sub> films resulting from electrochemical intercalation reactions. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 667-671.	0.6	9
23	XPS and TOF-SIMS study of the distribution of Li ions in thin films of vanadium pentoxide after electrochemical intercalation. <i>Surface and Interface Analysis</i> , 2008, 40, 746-750.	1.8	7
24	In Situ Electrochemical AFM and Cluster-Ion-Profiled XPS Characterization of an Insulating Polymeric Membrane as a Substrate for Immobilizing Biomolecules. <i>Langmuir</i> , 2017, 33, 2504-2513.	3.5	7
25	Analysis of the Be KLL Auger Transition on Beryllium and Beryllium Oxide by AES. <i>Surface Science Spectra</i> , 2013, 20, 97-112.	1.3	6
26	A unified scale for the Auger parameter: Methodology and benefits. <i>Surface and Interface Analysis</i> , 2022, 54, 455-464.	1.8	5
27	Surface science aspects of supramolecular conformation in elastin-like polypeptides. <i>Surface and Interface Analysis</i> , 2012, 44, 246-257.	1.8	4
28	Analysis of the Be KLL Auger Transition of Beryllium Nitride and Beryllium Carbide by AES. <i>Surface Science Spectra</i> , 2015, 22, 71-80.	1.3	4
29	Characterisation of helical structure in AFM micrographs of a trimer of the peptide sequence (ValGlyGlyValGly). <i>Surface and Interface Analysis</i> , 2014, 46, 679-682.	1.8	2
30	XPS analysis of small particles by proximal X-ray generation. <i>Surface and Interface Analysis</i> , 2014, 46, 949-951.	1.8	1
31	The chemical state plot for beryllium compounds. <i>Surface and Interface Analysis</i> , 2015, 47, 994-995.	1.8	1
32	The Use of X-Ray Photoelectron Spectroscopy in Materials Science. <i>Advances in X-ray Analysis</i> , 1991, 35, 869-882.	0.0	1
33	Analysis of Silicon Germanium Standards for the Quantification of SiGe Microelectronic Devices Using AES. <i>Surface Science Spectra</i> , 2015, 22, 32-46.	1.3	0