

Petr Jiricek

List of Publications by Year in descending order

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104
papers

3,030
citations

361413

20
h-index

175258

52
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105
all docs

105
docs citations

105
times ranked

4279
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of structural properties on (de-)intercalation of ClO_4^- anion in graphite from concentrated aqueous electrolyte. <i>Carbon</i> , 2022, 186, 612-623.	10.3	10
2	Chaotropic anion based "water-in-salt" electrolyte realizes a high voltage Zn^{2+} /graphite dual-ion battery. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2064-2074.	10.3	28
3	Electric and magnetic dipole emission of Eu^{3+} : Effect of proximity to a thin aluminum film. <i>Journal of Luminescence</i> , 2022, 246, 118778.	3.1	5
4	Long-term changes in Al thin-film extreme ultraviolet filters. <i>Applied Optics</i> , 2021, 60, 8766.	1.8	1
5	Optical characterization of low temperature amorphous MoO_x , WO_x , and VO_x prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2020, 693, 137690.	1.8	11
6	Hard X-ray photoelectron spectroscopy study of core level shifts at buried GaP/Si(001) interfaces. <i>Surface and Interface Analysis</i> , 2020, 52, 933-938.	1.8	8
7	Nanostructure fabrication on the top of laser-made micropillars for enhancement of water repellence of aluminium alloy. <i>Materials Letters</i> , 2019, 256, 126601.	2.6	19
8	Surface Study of Fe_3O_4 Nanoparticles Functionalized With Biocompatible Adsorbed Molecules. <i>Frontiers in Chemistry</i> , 2019, 7, 642.	3.6	144
9	Non-destructive depth profile reconstruction of single-layer graphene using angle-resolved X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2019, 491, 16-23.	6.1	7
10	Passivation of semipolar (10-1-1) GaN with different organic adsorbates. <i>Materials Letters</i> , 2019, 236, 201-204.	2.6	10
11	Amorphous carbon nanocomposite films doped by titanium: Surface and sub-surface composition and bonding. <i>Diamond and Related Materials</i> , 2018, 81, 61-69.	3.9	16
12	Surface and in-depth distribution of sp^2 and sp^3 coordinated carbon atoms in diamond-like carbon films modified by argon ion beam bombardment during growth. <i>Carbon</i> , 2018, 134, 71-79.	10.3	39
13	Study of Ni-Catalyzed Graphitization Process of Diamond by <i>in Situ</i> X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6629-6636.	3.1	22
14	Spin Seebeck effect in Fe_2O_3 thin films with high coercive field. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	12
15	Chemical depth profile of layered a- CSiO:H nanocomposites. <i>Applied Surface Science</i> , 2018, 456, 941-950.	6.1	8
16	C sp^2/sp^3 hybridisations in carbon nanomaterials " XPS and (X)AES study. <i>Applied Surface Science</i> , 2018, 452, 223-231.	6.1	316
17	Effect of treatment at high temperatures on morphology of a carbon supported Pd catalyst investigated by X-ray diffraction and photoelectron spectroscopy aided with QUASES. <i>Applied Surface Science</i> , 2018, 458, 855-863.	6.1	8
18	Electron affinity of undoped and boron-doped polycrystalline diamond films. <i>Diamond and Related Materials</i> , 2018, 87, 208-214.	3.9	14

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19	Chemical and structural properties of Pd nanoparticle-decorated grapheneâ€”Electron spectroscopic methods and QUASES. Applied Surface Science, 2017, 404, 300-309.	6.1	13
20	Lead-silicate glass surface sputtered by an argon cluster ion beam investigated by XPS. Journal of Non-Crystalline Solids, 2017, 469, 1-6.	3.1	15
21	Pd-catalysts for DFAFC prepared by magnetron sputtering. Applied Surface Science, 2017, 419, 838-846.	6.1	14
22	Influence of the preparation conditions of Pd_2ZrO_2 and $\text{AuPd}_2\text{ZrO}_2$ nanoparticleâ€”decorated functionalised MWCNTs: Electron spectroscopy study aided with the QUASES. Surface and Interface Analysis, 2017, 49, 1124-1134.	1.8	4
23	Electron band bending and surface sensitivity: X-ray photoelectron spectroscopy of polar GaN surfaces. Surface Science, 2017, 664, 241-245.	1.9	6
24	Electron band bending of polar, semipolar and non-polar GaN surfaces. Journal of Applied Physics, 2016, 119, .	2.5	21
25	GaN quantum dot polarity determination by X-ray photoelectron diffraction. Applied Surface Science, 2016, 389, 1156-1160.	6.1	4
26	Effect of the Pd/MWCNTs anode catalysts preparation methods on their morphology and activity in a direct formic acid fuel cell. Applied Surface Science, 2016, 387, 929-937.	6.1	39
27	Irradiation of potassiumâ€”silicate glass surfaces: XPS and REELS study. Surface and Interface Analysis, 2016, 48, 543-546.	1.8	2
28	Diamond-like carbon and nanocrystalline diamond film surfaces sputtered by argon cluster ion beams. Diamond and Related Materials, 2016, 68, 37-41.	3.9	14
29	Polarity of GaN with polar {0001} and semipolar , , orientations by x-ray photoelectron diffraction. Journal of Materials Research, 2015, 30, 2881-2892.	2.6	8
30	Attenuated total reflectance Fourier-transform infrared spectroscopic investigation of silicon heterojunction solar cells. Review of Scientific Instruments, 2015, 86, 073108.	1.3	12
31	Non-destructive assessment of the polarity of GaN nanowire ensembles using low-energy electron diffraction and x-ray photoelectron diffraction. Applied Physics Letters, 2015, 106, .	3.3	23
32	In-out asymmetry of surface excitations in reflection-electron-energy-loss spectra of polycrystalline Al. Physical Review B, 2014, 89, .	3.2	6
33	Polarity of semipolar wurtzite crystals: X-ray photoelectron diffraction from $\text{GaN}\{101\bar{1}\}$ and $\text{GaN}\{202\bar{1}\}$ surfaces. Journal of Applied Physics, 2014, 116, .	2.5	6
34	Graphene oxide and reduced graphene oxide studied by the XRD, TEM and electron spectroscopy methods. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 145-154.	1.7	1,297
35	Electron Supersurface Scattering On Polycrystalline Au. Physical Review Letters, 2013, 110, 086110.	7.8	19
36	GaN polarity determination by photoelectron diffraction. Applied Physics Letters, 2013, 103, .	3.3	11

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37	Atomic and electronic structure of N-terminated GaN(0001 $\bar{1}$,) (1 $\bar{1}$ –1) surface. Journal of Physics: Conference Series, 2012, 398, 012013.	0.4	4
38	Hydrogen on nanocrystalline diamond film surfaces. Diamond and Related Materials, 2012, 26, 66-70.	3.9	3
39	Quantitative low-energy electron diffraction analysis of the GaN(0001 $\bar{1}$,) (1 $\bar{1}$ –1) surface. Journal of Physics: Conference Series, 2012, 398, 012013.	0.4	4
40	Time dependent thermal treatment of oxidized MWCNTs studied by the electron and mass spectroscopy methods. Applied Surface Science, 2012, 258, 7912-7917.	6.1	22
41	Layer-resolved photoelectron diffraction: Electron attenuation anisotropy in GaAs. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 184-187.	1.7	1
42	Potassium-silicate glass exposed to low energy H+ beam. Nuclear Instruments & Methods in Physics Research B, 2012, 280, 111-116.	1.4	4
43	Mn incorporation into the GaAs lattice investigated by hard x-ray photoelectron spectroscopy and diffraction. Physical Review B, 2011, 83, .	3.2	12
44	Dielectric response functions of the (0001 $\bar{1}$,) (101 $\bar{1}$ 3) GaN single crystalline and disordered surfaces studied by reflection electron energy loss spectroscopy. Journal of Applied Physics, 2011, 110, 043507.	2.5	14
45	Pd/MWCNTs catalytic activity in the formic acid electrooxidation dependent on catalyst surface treatment. Physica Status Solidi (B): Basic Research, 2011, 248, 2516-2519.	1.5	15
46	Influence of Pd/Au/MWCNTs surface treatment on catalytic activity in the formic acid electrooxidation. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3195-3199.	0.8	11
47	Studies of EPES REELS spectra of polyethylenes aided by line shape analysis—Effect of electron irradiation. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 360-365.	1.7	6
48	Reflection electron energy loss spectroscopy of aluminum. Surface Science, 2010, 604, 1006-1009.	1.9	4
49	Comment on: As 3d core level studies of (GaMn)As annealed under As capping by I. Ulfat, J. Adell, J. Sadowski, L. Ilver, J. Kanski, Surface Sci. 604 (2010), 125.. Surface Science, 2010, 604, 2064.	1.9	0
50	The line shape analysis of electron spectroscopy spectra by the artificial intelligence methods for identification of C sp ² /sp ³ bonds. Physica Status Solidi (B): Basic Research, 2010, 247, 2838-2842.	1.5	8
51	Distinguishing elastic and inelastic scattering effects in reflection electron energy loss spectroscopy. Physical Review B, 2010, 82, .	3.2	3
52	Studies of oxidized carbon nanotubes in temperature range RT–630 \bar{A} °C by the infrared and electron spectroscopies. Journal of Alloys and Compounds, 2010, 505, 379-384.	5.5	23
53	Temperature modification of oxidized multiwall carbon nanotubes studied by electron spectroscopy methods. Physica Status Solidi (B): Basic Research, 2009, 246, 2645-2649.	1.5	22
54	Photoemission from $\hat{1}\bar{1}$ and $\hat{1}^2$ phases of the GaAs(001)-c(4 $\bar{1}$ –4) surface. Surface Science, 2009, 603, 3088-3093.	1.9	9

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55	XPS and XAES of polyethylenes aided by line shape analysis: The effect of electron irradiation. <i>Polymer Degradation and Stability</i> , 2009, 94, 1714-1721.	5.8	13
56	Determination of electron inelastic mean free paths for poly[methyl(phenyl)silylene] films. <i>Polymer</i> , 2009, 50, 2445-2450.	3.8	3
57	Photoemission from Al(100) and (111): Experiment and <i>ab initio</i> theory. <i>Physical Review B</i> , 2008, 78, .	3.2	32
58	Effect of electron irradiation on Na ⁺ K silicate glass investigated using X-ray photoelectron spectroscopy and pattern recognition method. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3840-3848.	3.1	4
59	Photoemission from Al(100): experiment and one-step theory. <i>Journal of Physics: Conference Series</i> , 2008, 100, 072035.	0.4	1
60	Investigation of CoPd alloys by XPS and EPES using the pattern recognition method. <i>Journal of Alloys and Compounds</i> , 2007, 428, 190-196.	5.5	5
61	Role of final states in photoemission from Al(111). <i>Surface Science</i> , 2007, 601, 4105-4108.	1.9	2
62	Attenuation of photoelectrons and Auger electrons leaving nickel deposited on a gold surface. <i>Surface and Interface Analysis</i> , 2007, 39, 916-921.	1.8	6
63	Angular-resolved elastic peak electron spectroscopy: experiment and Monte Carlo calculations. <i>Surface and Interface Analysis</i> , 2006, 38, 615-619.	1.8	15
64	Measurement of the differential electron surface and volume excitation probability in Cu, CuO and Cu ₂ O. <i>Surface and Interface Analysis</i> , 2006, 38, 628-631.	1.8	1
65	Studies of AuNi alloys by electron spectroscopies with the aid of the line shape analysis by the pattern recognition method. <i>Surface and Interface Analysis</i> , 2006, 38, 1204-1210.	1.8	2
66	Determination of the inelastic mean free paths (IMFPs) in Ti by elastic peak electron spectroscopy (EPES): Effect of impurities and surface excitations. <i>Applied Surface Science</i> , 2006, 252, 2741-2746.	6.1	6
67	Valence band photoemission from in-situ grown GaAs(100)-c(4 $\sqrt{3}$ × 4). <i>European Physical Journal D</i> , 2006, 56, 21-26.	0.4	3
68	UV degradability of polysilanes for nanoresists examined by electron spectroscopies and photoluminescence. <i>European Physical Journal D</i> , 2006, 56, 41-50.	0.4	5
69	Electron surface states in short-period superlattices: (GaAs) ₂ /(AlAs) ₂ (100)-c(4 $\sqrt{3}$ × 4). <i>Surface Science</i> , 2006, 600, 3646-3649.	1.9	1
70	The backscattering factor for the Au N _{67VV} Auger transition. <i>Applied Surface Science</i> , 2005, 252, 905-915.	6.1	6
71	Determination of the electron inelastic mean free path for samarium. <i>Surface Science</i> , 2005, 595, 1-5.	1.9	3
72	Studies of iron and iron oxide layers by electron spectroscopes. <i>Applied Surface Science</i> , 2005, 252, 330-338.	6.1	10

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73	Electron irradiated potassium-silicate glass surfaces investigated by XPS. Journal of Non-Crystalline Solids, 2005, 351, 1665-1674.	3.1	33
74	Elastic electron backscattering from silicon surfaces: effect of charge-carrier concentration. Surface and Interface Analysis, 2004, 36, 809-811.	1.8	1
75	Elastic electron backscattering from Ti: grain size effect. Surface and Interface Analysis, 2004, 36, 816-819.	1.8	4
76	LEED structural analysis of GaAs(001)-c(4 \times 4) surface. Surface Science, 2004, 566-568, 89-93.	1.9	13
77	Surface excitations in electron backscattering from silicon surfaces. Surface Science, 2004, 562, 92-100.	1.9	31
78	Electron mean free path for GaAs(100)-c(4 \times 4) at very low energies. Surface Science, 2004, 566-568, 1196-1199.	1.9	2
79	Photoelectron escape from iron oxide. Surface Science, 2004, 572, 93-102.	1.9	3
80	Elastic electron backscattering from surfaces in selected angular ranges. Applied Surface Science, 2004, 229, 67-80.	6.1	1
81	GaAs (100)-(1 \times 1) Structure Analysis from LEED Intensities. European Physical Journal D, 2003, 53, 49-54.	0.4	5
82	Scattering angle dependence of the surface excitation probability in reflection electron energy loss spectra. Physical Review B, 2003, 67, .	3.2	43
83	Surface excitation effects in elastic peak electron spectroscopy. Surface Science, 2003, 531, L335-L339.	1.9	24
84	XPS and He II photoelectron yield study of the activation process in Ti ϵ -Zr NEG films. Vacuum, 2003, 71, 329-333.	3.5	12
85	Stability of the inelastic mean free paths determined by elastic peak electron spectroscopy in nickel and silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 447-455.	2.1	12
86	Growth mode of ultrathin gold films deposited on nickel. Applied Surface Science, 2002, 199, 138-146.	6.1	14
87	Influence of surface composition and density on electron inelastic mean free paths in Ge. Surface and Interface Analysis, 2002, 33, 381-393.	1.8	4
88	Elastic electron backscattering from silicon surfaces: effect of surface roughness. Surface and Interface Analysis, 2002, 34, 215-219.	1.8	15
89	On line shape analysis in X-ray photoelectron spectroscopy. Surface Science, 2001, 470, 325-336.	1.9	35
90	Escape probability of photoelectrons from silver sulphide. Surface Science, 2001, 473, 8-16.	1.9	27

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91	A theoretical investigation of photoemission spectra from (GaAs) ₂ (AlAs) ₂ superlattices. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 1127-1132.	1.7	1
92	Elastic electron backscattering from overlayer/substrate systems. Surface and Interface Analysis, 2001, 31, 825-834.	1.8	19
93	Valence-band photoemission from GaAs(100) c(4 \times 4). Physical Review B, 2001, 63, .	3.2	14
94	One-step photoemission calculations for ideal GaAs(001) and AlAs(001) surfaces and (GaAs) _m (AlAs) _n superlattices. Physical Review B, 2001, 63, .	3.2	13
95	Inelastic mean free path measurements of electrons near nickel surfaces. Surface and Interface Analysis, 2000, 30, 217-221.	1.8	9
96	Measurements of the escape probability of photoelectrons and the inelastic mean free path in silver sulphide. Surface and Interface Analysis, 2000, 30, 222-227.	1.8	5
97	Determination of the electron inelastic mean free path in polyacetylene by elastic peak electron spectroscopy using different spectrometers. Applied Surface Science, 1999, 144-145, 168-172.	6.1	12
98	Determination of the inelastic mean free paths of electrons in copper and copper oxides by elastic peak electron spectroscopy (EPES). Surface and Interface Analysis, 1998, 26, 400-411.	1.8	27
99	Dependence of experimentally determined inelastic mean free paths of electrons on the measurement geometry. Surface Science, 1998, 412-413, 42-54.	1.9	55
100	Transfer of samples between separated ultrahigh vacuum instruments for semiconductor surface studies. Review of Scientific Instruments, 1998, 69, 2804-2805.	1.3	10
101	Measurement of the transmission function of the hemispherical energy analyser of ADES 400 electron spectrometer. European Physical Journal D, 1994, 44, 261-267.	0.4	78
102	Altered layer composition of sputtered InP(100) wafers: non-destructive concentration depth profiling. Surface Science, 1994, 318, 421-427.	1.9	14
103	Electronic and crystalline structure of Si/SiO ₂ interface modified by ArF excimer laser. Progress in Surface Science, 1990, 35, 197-199.	8.3	2
104	ArF excimer laser induced changes in the Si(100)/SiO ₂ interface studied in situ by ESCA and LEED. Applied Surface Science, 1989, 43, 297-300.	6.1	5