

Kenichi Ozawa

List of Publications by Year in descending order

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127
papers

1,939
citations

279798

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docs citations

127
times ranked

2682
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-Hole Recombination Time at TiO ₂ Single-Crystal Surfaces: Influence of Surface Band Bending. Journal of Physical Chemistry Letters, 2014, 5, 1953-1957.	4.6	219
2	PtCu Intermetallic Compound Supported on Alumina Active for Preferential Oxidation of CO in Hydrogen. Journal of Physical Chemistry C, 2013, 117, 10483-10491.	3.1	73
3	Performance of PF BL-13A, a vacuum ultraviolet and soft X-ray undulator beamline for studying organic thin films adsorbed on surfaces. Journal of Physics: Conference Series, 2013, 425, 152019.	0.4	65
4	Hydrogen-Induced Surface Metallization of SrTiO ₃ . Journal of Physical Chemistry C, 2011, 115, 10483-10491.	7.8	64
5	Comparison of the surface electronic structures of H-adsorbed ZnO surfaces: An angle-resolved photoelectron spectroscopy study. Physical Review B, 2011, 83, .	3.2	60
6	Metallization of ZnO. Physical Review B, 2010, 81, .	3.2	55
7	adsorption of hydrogen, methanol, and water: Angle-resolved photoelectron spectroscopy. Physical Review B, 2010, 81, .		
7	Catalytic properties of Pt-based intermetallic compounds in dehydrogenation of cyclohexane and n-butane. Applied Catalysis A: General, 2014, 469, 300-305.	4.3	45
8	Adsorption State and Molecular Orientation of Ammonia on ZnO(101̄,0) Studied by Photoelectron Spectroscopy and near-Edge X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 9380-9386.	2.6	36
9	Electron-hole recombination on ZnO(0001) single-crystal surface studied by time-resolved soft X-ray photoelectron spectroscopy. Applied Physics Letters, 2014, 105, 151602.	3.3	36
10	Photoelectron Spectroscopy Study of the Oxidation of ZrC(100). Japanese Journal of Applied Physics, 2000, 39, 5217-5222.	1.5	34
11	Angle-resolved photoelectron spectroscopy study of the anion-derived dangling-bond band on ZnO(101̄,0). Physical Review B, 2003, 68, .	3.2	34
12	Formation and characterization of the Cu ₂ O overlayer on Zn-terminated ZnO(0001). Surface Science, 2009, 603, 2163-2170.	1.9	31
13	A study on the hydrogen activation properties of Ni-based intermetallics: a relationship between reactivity and the electronic state. Physical Chemistry Chemical Physics, 2014, 16, 19828.	2.8	31
14	Photoelectron Spectroscopy Study of the Oxidation of TiC(100). Japanese Journal of Applied Physics, 2003, 42, 1725-1731.	1.5	29
15	The interaction of water with oxygen-modified ZrC(100) surfaces. Solid State Communications, 2001, 118, 23-26.	1.9	27
16	Disappearance of Localized Valence Band Maximum of Ternary Tin Oxide with Pyrochlore Structure, Sn ₂ Nb ₂ O ₇ . Journal of Physical Chemistry C, 2017, 121, 9480-9488.	3.1	27
17	Correlation between Photocatalytic Activity and Carrier Lifetime: Acetic Acid on Single-Crystal Surfaces of Anatase and Rutile TiO ₂ . Journal of Physical Chemistry C, 2018, 122, 9562-9569.	3.1	27
18	Photoelectron spectroscopy study of Mo ₂ C(0001). Solid State Communications, 2001, 121, 1-5.	1.9	26

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19	Surface clean gold nanoflower obtained by complete removal of capping agents: an active catalyst for alcohol oxidation. RSC Advances, 2016, 6, 17222-17227.	3.6	26
20	High-resolution photoelectron spectroscopy study of degradation of rubber-to-brass adhesion by thermal aging. Applied Surface Science, 2013, 268, 117-123.	6.1	25
21	Electronic structure of the hydrogen-adsorbed SrTiO ₃ (001) surface studied by polarization-dependent photoemission spectroscopy. Physical Review B, 2013, 87, .	3.2	25
22	Photoelectron spectroscopy study of K adsorption on ZnO(100). Surface Science, 2003, 524, 78-88.	1.9	24
23	Electronic Structure of Cu on ZnO(10 $\bar{1}$,0): Angle-Resolved Photoemission Spectroscopy Study. Journal of Physical Chemistry C, 2007, 111, 4256-4263.	3.1	24
24	Phonon-dressed two-dimensional carriers on the ZnO surface. Physical Review B, 2016, 94, .	3.2	23
25	Oxygen adsorption on a ZrC(111) surface: angle-resolved photoemission study. Surface Science, 2000, 450, 27-33.	1.9	22
26	Angle-resolved photoemission study of the valence band structure of ZnO(). Journal of Physics Condensed Matter, 2005, 17, 1271-1278.	1.8	22
27	Soft X-ray photoelectron spectroscopy study of Ni ₂ P(0001). Solid State Communications, 2008, 148, 135-138.	1.9	22
28	High-resolution photoelectron spectroscopy analysis of sulfidation of brass at the rubber/brass interface. Applied Surface Science, 2013, 264, 297-304.	6.1	22
29	Photoelectron spectroscopy study of oxygen adsorption on Mo ₂ C(0001). Surface Science, 2004, 561, 101-109.	1.9	21
30	Preparation of alumina-supported intermetallic compounds. RSC Advances, 2013, 3, 23269.	3.6	21
31	Adsorption of methanol on ZrC(100) and (111) surfaces. Surface Science, 1999, 433-435, 180-183.	1.9	20
32	Preparation and catalytic properties of fine particles of Pt-Ge intermetallic compound formed inside the mesopores of MCM-41. Journal of Molecular Catalysis A, 2010, 319, 71-77.	4.8	20
33	Electronic structure of epitaxial anatase TiO ₂ films: Angle-resolved photoelectron spectroscopy study. Physical Review B, 2012, 85, .	3.2	19
34	What Determines the Lifetime of Photoexcited Carriers on TiO ₂ Surfaces?. Journal of Physical Chemistry C, 2016, 120, 29283-29289.	3.1	19
35	Electronic structure of the Zr suboxide layer formed on a ZrC(100) surface. Surface Science, 2002, 511, 359-365.	1.9	18
36	Valence-band structure of the polar ZnO surfaces studied by angle-resolved photoelectron spectroscopy. Physical Review B, 2009, 79, .	3.2	18

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37	Electron Donor Molecule on the Oxide Surface: Influence of Surface Termination of ZnO on Adsorption of Tetrathiafulvalene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21843-21851.	3.1	17
38	Photoemission study of the oxidation of ZrC(111). <i>Solid State Communications</i> , 1998, 107, 145-148.	1.9	16
39	PHOTOELECTRON SPECTROSCOPY STUDY OF AMMONIA ADSORPTION ON $\text{ZnO}(10\bar{1}0)$. <i>Surface Review and Letters</i> , 2002, 09, 717-722.	1.1	16
40	Electronic structure of the Ti suboxide layer formed on a TiC(100) surface: Angle-resolved photoemission study. <i>Surface Science</i> , 2005, 584, 237-244.	1.9	16
41	In situ chemical state analysis of buried polymer/metal adhesive interface by hard X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2014, 320, 177-182.	6.1	16
42	Adsorption of K on NbC(100): photoemission and thermal desorption study. <i>Surface Science</i> , 1995, 336, 93-100.	1.9	15
43	Synthesis of trans-stilbene through the hydrogenation of diphenylacetylene. <i>Catalysis Today</i> , 2011, 164, 143-147.	4.4	15
44	Anisotropic effective mass approximation model to calculate multiple subband structures at wide-gap semiconductor surfaces: Application to accumulation layers of SrTiO ₃ and ZnO. <i>Surface Science</i> , 2015, 641, 224-230.	1.9	15
45	Potassium adsorption on the polar NbC(111) surface: angle-resolved photoemission study. <i>Surface Science</i> , 1997, 375, 250-256.	1.9	14
46	Valence and Core-Level Photoelectron Spectroscopy Study of the Electronic Structure of Ni ₂ P(0001). <i>E-Journal of Surface Science and Nanotechnology</i> , 2009, 7, 1-6.	0.4	14
47	Electronic structure of the surface: Angle-resolved photoemission study. <i>Solid State Communications</i> , 2010, 150, 1120-1123.	1.9	14
48	Capturing transiently charged states at the C ₆₀ /TiO ₂ (110) interface by time-resolved soft X-ray photoelectron spectroscopy. <i>Organic Electronics</i> , 2016, 31, 98-103.	2.6	14
49	Interaction of hydrogen with TaC(111) and NbC(111) surfaces: Angle-resolved photoemission study. <i>Physical Review B</i> , 1995, 51, 4516-4522.	3.2	13
50	Angle-Resolved HAXPES Investigation on the Chemical Origin of Adhesion between Natural Rubber and Brass. <i>Langmuir</i> , 2017, 33, 9582-9589.	3.5	13
51	Surface electronic structure of $\text{Ti-Mo}_2\text{C}(0001)$. <i>Surface Science</i> , 2006, 600, 448-452.	1.9	12
52	Potassium adsorption on the polar NbC(111) surface: core-level photoemission study. <i>Surface Science</i> , 1996, 357-358, 350-354.	1.9	11
53	Adsorption of methanol on TiC(100) and (111) surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 88-91, 805-808.	1.7	11
54	Coadsorption of oxygen and cesium on ZrC(111). <i>Surface Science</i> , 2002, 511, 421-434.	1.9	11

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55	Electronic structure of the TiO thin film on Ag(1 0 0): Angle-resolved photoemission study. Surface Science, 2008, 602, 2295-2299.	1.9	11
56	Femtosecond to picosecond transient effects in WSe ₂ observed by pump-probe angle-resolved photoemission spectroscopy. Scientific Reports, 2017, 7, 15981.	3.3	11
57	Angle-resolved photoemission study of the surface electronic structure of HfC (111). Solid State Communications, 1999, 110, 35-38.	1.9	10
58	Angle-Resolved Photoemission Spectroscopy Study of Adsorption Process and Electronic Structure of Silver on ZnO(101̄,0). Journal of Physical Chemistry B, 2005, 109, 14619-14626.	2.6	10
59	Growth of ordered titanium oxide films on Ag(100). Solid State Communications, 2007, 142, 32-35.	1.9	10
60	Angle-resolved photoelectron spectroscopy study of hydrogen adsorption on ZnO(101̄,0). Journal of Physical Chemistry B, 2005, 109, 14619-14626.	1.8	10
61	Ca ²⁺ -exchanged ferrierite: Quasi one-dimensional zeolite for highly selective and stable formation of light alkenes in catalytic cracking of n-octane. Applied Catalysis A: General, 2011, 407, 127-133.	4.3	10
62	A Surface Science Approach to Unveiling the TiO ₂ Photocatalytic Mechanism: Correlation between Photocatalytic Activity and Carrier Lifetime. E-Journal of Surface Science and Nanotechnology, 2019, 17, 130-147.	0.4	10
63	Enhanced Photoresponsivity of Fullerene in the Presence of Phthalocyanine: A Time-Resolved X-ray Photoelectron Spectroscopy Study of Phthalocyanine/C ₆₀ /TiO ₂ (110). Journal of Physical Chemistry C, 2019, 123, 4388-4395.	3.1	10
64	Interaction of water and methanol with oxygen-modified ZrC(100) surfaces. Surface Science, 2002, 518, 225-233.	1.9	9
65	Valence band structure of the ZnO(101̄,0) surface studied by angle-resolved photoemission spectroscopy. Applied Surface Science, 2004, 237, 343-347.	6.1	9
66	Oxidation of copper clusters on : Effect of temperature and preadsorbed water. Surface Science, 2007, 601, 3125-3132.	1.9	9
67	Na adsorption on the polar NbC(111) surface. Surface Science, 1999, 419, 226-235.	1.9	8
68	Potassium adsorption on the polar ZrC(111) surface: photoemission spectroscopy study. Surface Science, 2000, 446, 229-240.	1.9	8
69	Photoelectron spectroscopy study of the K-covered ZnO(101̄,0) surface; annealing-induced changes in the electronic structure and the chemical composition. Surface Science, 2003, 547, 257-267.	1.9	8
70	Photoemission spectroscopy study of the oxidation of HfC(100). Applied Surface Science, 2005, 244, 174-177.	6.1	8
71	Electron-Donor Dye Molecule on ZnO(101̄,0), (0001), and (0001̄) Studied by Photoelectron Spectroscopy and X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 8653-8662.	3.1	8
72	Evidence for chemical bond formation at rubber-brass interface: Photoelectron spectroscopy study of bonding interaction between copper sulfide and model molecules of natural rubber. Surface Science, 2016, 654, 14-19.	1.9	8

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73	Improved pumping speeds of oxygen-free palladium/titanium nonevaporable getter coatings and suppression of outgassing by baking under oxygen. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	8
74	Formation of oxide layer on HfC(100) surface studied by photoemission spectroscopy. <i>E-Journal of Surface Science and Nanotechnology</i> , 2006, 4, 219-226.	0.4	8
75	Oxidation of Cu on ZnO(0001)-Zn: Angle-Resolved Photoelectron Spectroscopy and Low-Energy Electron Diffraction Study. <i>E-Journal of Surface Science and Nanotechnology</i> , 2008, 6, 226-232.	0.4	8
76	Electronic structure of the nitride layers formed on a Si(111) surface: angle-resolved photoemission study. <i>Surface Science</i> , 1994, 317, 143-151.	1.9	7
77	Cs adsorption on a polar NbC(111) surface: photoemission and auger electron spectroscopy studies. <i>Surface Science</i> , 1996, 364, L612-L616.	1.9	7
78	Na adsorption process on a ZrC(100) surface. <i>Applied Surface Science</i> , 1997, 121-122, 142-145.	6.1	7
79	Surface electronic structure of HfC(). <i>Surface Science</i> , 2002, 498, 343-349.	1.9	7
80	Electronic structure of Mo ₂ C(0001) studied by resonant photoemission spectroscopy. <i>Solid State Communications</i> , 2004, 131, 245-249.	1.9	7
81	Room temperature adsorption of NH ₃ on Zn-terminated ZnO(O ₂). <i>Applied Surface Science</i> , 2004, 237, 352-357.	6.1	7
82	Angle-resolved and resonant photoemission study of the ZrO-like film on ZrC(1 0 0). <i>Surface Science</i> , 2007, 601, 5077-5082.	1.9	7
83	Controlling the surface photovoltage on WSe ₂ by surface chemical modification. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	7
84	Interaction of oxygen with potassium-covered ZrC(111) surface: photoemission spectroscopy study. <i>Surface Science</i> , 1999, 438, 223-230.	1.9	6
85	Ta _{5d} Band Symmetry of 1T [~] Ta _{1.2} Se _{0.8} in the Commensurate Charge-Density-Wave Phase. <i>Physical Review Letters</i> , 2003, 91, 256404.	7.8	6
86	Increase in charge-density-wave potential of 1T [~] Ta _x Se _{2[~]x} . <i>Physical Review B</i> , 2004, 69, .	3.2	6
87	Tailoring Photovoltage Response at SrRuO ₃ /SrTiO ₃ Heterostructures. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600527.	3.7	6
88	Competition between Itineracy and Localization of Electrons Doped into the Near-Surface Region of Anatase TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 19661-19669.	3.1	6
89	In-gap state generated by La-on-Sr substitutional defects within the bulk of SrTiO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14646-14653.	2.8	6
90	Alkali-Metals on ZnO(10-10) Studied by Low-Energy Electron Diffraction and Photoelectron Spectroscopy. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005, 3, 299-310.	0.4	6

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91	Beamline commissioning for microscopic measurements with ultraviolet and soft X-ray beam at the upgraded beamline BL-13B of the Photon Factory. Journal of Synchrotron Radiation, 2022, 29, 400-408.	2.4	6
92	Angle-resolved photoemission study of Cu on ZnO(100); room temperature deposition and annealing effect. Surface Science, 2007, 601, 4053-4057.	1.9	5
93	Characterization of Ni ₂ P(10-10): Soft X-Ray Photoelectron Spectroscopy Study. E-Journal of Surface Science and Nanotechnology, 2012, 10, 45-49.	0.4	5
94	Polarization-dependent ARPES measurement for valence band of anatase TiO ₂ . Solid State Communications, 2014, 188, 15-18.	1.9	5
95	Photoelectron spectroscopy study of interaction of oxygen with the (111) surface of a Cu-Zn alloy. Surface Science, 2014, 623, 1-5.	1.9	5
96	Shockley surface state on Î±-brass(111) and its response to oxygen adsorption. Surface Science, 2014, 623, 6-12.	1.9	5
97	Electronic structure of Fe ₂ P studied by soft X-ray photoelectron spectroscopy and X-ray absorption spectroscopy. Surface Science, 2017, 664, 50-55.	1.9	5
98	Ultraviolet Photoelectron Spectroscopy. , 2018, , 783-790.		5
99	Development of a high-precision XYZ translator and estimation of beam profile of the vacuum ultraviolet and soft X-ray undulator beamline BL-13B at the Photon Factory. Journal of Synchrotron Radiation, 2020, 27, 923-933.	2.4	5
100	Electronic structure and reactivity of the TiO thin film formed on a TiC(100) surface. Thin Solid Films, 2004, 464-465, 76-79.	1.8	4
101	Photoemission study of K adsorption on ZrC(111). Surface Science, 1999, 433-435, 700-704.	1.9	3
102	Adsorption of Methanol on Oxygen-Modified ZrC(100) and (111) Surfaces. Japanese Journal of Applied Physics, 2000, 39, 4331-4334.	1.5	3
103	The electronic structure and reactivity of the oxygen-modified Mo ₂ C(0001) surface. Applied Surface Science, 2008, 254, 7622-7625.	6.1	3
104	Oxidation process of Mo ₂ C(0001) studied by photoelectron spectroscopy. Applied Surface Science, 2004, 237, 499-503.	6.1	3
105	Elaboration of near-valence band defect states leading deterioration of ambipolar operation in SnO thin film transistors. Nano Select, 2022, 3, 1012-1020.	3.7	3
106	O ₂ adsorption on clean and K-modified ZrC(111) surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 801-804.	1.7	2
107	Cs Adsorption on ZrC(111): Photoemission Spectroscopy Study. Japanese Journal of Applied Physics, 2000, 39, 4325-4330.	1.5	2
108	Hydrogen adsorption on a HfC(111) surface: angle-resolved photoemission study. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 495-499.	1.7	2

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109	Oxygen adsorption on a Mo ₂ C(0001) surface: Angle-resolved photoemission study. Surface Science, 2007, 601, 201-208.	1.9	2
110	Oxidation of ultra-thin Ti films on Mo(100): Soft X-ray photoelectron spectroscopy study. Surface Science, 2012, 606, 414-419.	1.9	2
111	Electronic Structure of the Ultra-Thin TiO ₂ Film on Ag(100): Resonant Photoemission Spectroscopy Study. E-Journal of Surface Science and Nanotechnology, 2012, 10, 286-291.	0.4	2
112	Observation of Brass / Rubber Adhesion Interface Using X-ray High Resolution Photoelectron Spectroscopy.. Nippon Gomu Kyokaishi, 2015, 88, 291-296.	0.0	2
113	Angle-Resolved Photoemission Study of Ni ₂ P(10-10): Change in the Surface Electronic Structure Induced by P Segregation. E-Journal of Surface Science and Nanotechnology, 2014, 12, 175-178.	0.4	2
114	VALENCE ELECTRONIC STRUCTURE OF OXYGEN-MODIFIED $\hat{1}\pm$ -Mo ₂ C(0001) SURFACE: ANGLE-RESOLVED PHOTOEMISSION STUDY. Surface Review and Letters, 2006, 13, 185-190.	1.1	1
115	Growth of ultrathin vanadium oxide films on Ag(100). Japanese Journal of Applied Physics, 2016, 55, 075501.	1.5	1
116	Growth of ultrathin titanium oxide films on Ag(110). Japanese Journal of Applied Physics, 2017, 56, 085501.	1.5	1
117	Influence of Stacking Order of Phthalocyanine and Fullerene Layers on the Photoexcited Carrier Dynamics in Model Organic Solar Cell. Journal of Physical Chemistry C, 2021, 125, 13963-13970.	3.1	1
118	Angle-Resolved Photoemission Spectroscopy Study of Metal/Oxide Interface-Valence Band Structure of Cu Adsorbed Polar ZnO Surfaces-. Hyomen Kagaku, 2008, 29, 407-412.	0.0	1
119	Electronic Structure of the VO Film Grown on Ag(100): Resonant Photoelectron Spectroscopy Study. E-Journal of Surface Science and Nanotechnology, 2018, 16, 236-241.	0.4	1
120	GROWTH MODE AND ELECTRONIC STRUCTURE OF SILVER ON $\overline{\{m\text{ZnO}\}}_{(10)}$. Surface Review and Letters, 2006, 13, 227-233.	1.1	0
121	Surface Photovoltage: Tailoring Photovoltage Response at SrRuO ₃ /SrTiO ₃ Heterostructures (Adv.) Tj ETQq1 1 0.784314 rgBT ₀ /Overl 3.7	1.0	0
122	Two-dimensional Electron Gas at Thiol/ZnO Interface. E-Journal of Surface Science and Nanotechnology, 2020, 18, 41-47.	0.4	0
123	Activation of ZrC(100) Surfaces by Suboxide-layer Formation.. Hyomen Kagaku, 2001, 22, 537-539.	0.0	0
124	A Theoretical Study of O/Ti Co-Adsorption on Ag(100). E-Journal of Surface Science and Nanotechnology, 2009, 7, 7-12.	0.4	0
125	Hard X-ray photoelectron spectroscopy study of thermal effect on chemical state of sulfur in rubber compound. EXPRESS Polymer Letters, 2019, 13, 214-222.	2.1	0
126	Applications of Hard X-ray Photoelectron Spectroscopy (HAXPES) to Rubber Materials Developments. Nippon Gomu Kyokaishi, 2019, 92, 76-81.	0.0	0

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127	Development of a New Nonevaporable Getter Coating Using Oxygen-Free Palladium/Titanium, Surface Analysis by Synchrotron Radiation X-ray Photoelectron Spectroscopy, Residual Gas Analysis, and Evaluation of Pumping Speeds. <i>Vacuum and Surface Science</i> , 2019, 62, 568-573.	0.1	0