Hideki Nakajima

List of Publications by Year
in descending order

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118	1,511	430874 18	395702 33
papers	citations	h-index	g-index

118	118	118	2142
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-depositing passivation layer investigations on stability improvement of the Ag NRs SERS substrate. Vacuum, 2022, 196, 110734.	3.5	4
2	Effects of Oxygen Partial Pressure and Substrate Temperature on the Structure and Morphology of Sc and Y Co-Doped ZrO2 Solid Electrolyte Thin Films Prepared via Pulsed Laser Deposition. Materials, 2022, 15, 410.	2.9	3
3	Mesostructural study on graphenic-based carbon prepared from coconut shells by heat treatment and liquid exfoliation. Heliyon, 2022, 8, e09032.	3.2	10
4	Graphite/Carbon Black Counter Electrode Deposition Methods to Improve the Efficiency and Stability of Hole-Transport-Layer-Free Perovskite Solar Cells. ACS Omega, 2022, 7, 22830-22838.	3.5	7
5	Hydrolysis corrosion of alumina thin films produced by pulse DC reactive magnetron sputtering at various operating pressures. Ceramics International, 2021, 47, 9691-9700.	4.8	5
6	Electrical fatigue behavior of Ba0.85Ca0.15Zr0.1Ti0.9O3 ceramics under different oxygen concentrations. Journal of the European Ceramic Society, 2021, 41, 2497-2505.	5.7	10
7	Facile fabrication and optical characterization of nanoflake aluminum oxide film with high broadband and omnidirectional transmittance enhancement. Optical Materials, 2021, 111, 110567.	3.6	8
8	Preparation of low-temperature phase MnBi by sintering in vacuum. Journal of Physics: Conference Series, 2021, 1719, 012057.	0.4	1
9	Particle size dependence of the electrochemical properties of SrMnO3 supercapacitor electrodes. Journal of Solid State Electrochemistry, 2021, 25, 1121-1129.	2.5	9
10	Plasmonic silver sandwich structured photoanode and reflective counter electrode enhancing power conversion efficiency of dye-sensitized solar cell. Solar Energy, 2021, 215, 403-409.	6.1	24
11	X-ray Photoelectron Spectroscopy Analysis of Chitosanâ€“Graphene Oxide-Based Composite Thin Films for Potential Optical Sensing Applications. Polymers, 2021, 13, 478.	4.5	26
12	Fabrication of DNA/NiSi NWs and Ag NPs-NiSi NWs-based Schottky diodes for DNA detection with fast response time. Journal of Materials Science: Materials in Electronics, 2021, 32, 7889-7905.	2.2	3
13	Low-temperature growth of graphene nanoplatelets by hot-wire chemical vapour deposition. Surface and Coatings Technology, 2021, 411, 126995.	4.8	8
14	Ultraviolet-induced oxygen vacancy in SrTiO3 polycrystalline. Applied Physics Letters, 2021, 118, 221602.	3.3	3
15	Electrical Conduction Properties of Hydrogenated Amorphous Carbon Films with Different Structures. Materials, 2021, 14, 2355.	2.9	10
16	Spectroscopic signature of negative electronic compressibility from the Ti core-level of titanium carbonitride MXene. Applied Physics Reviews, 2021, 8, .	11.3	7
17	Facile synthesis and electrochemical characterization of novel metal oxide/Philippine natural zeolite (MOPNZ) nanocomposites. Materials Letters, 2021, 294, 129799.	2.6	3
18	Enhanced N719 Dye Adsorption onto Ca and La Doped Mesoporous TiO2 Anodes for Dye-Sensitized Solar Cells. Journal of Electronic Materials, 2021, 50, 5788-5795.	2.2	5

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19	Photoenhanced Water Electrolysis in Separate O₂ and H₂ Cells Using Pseudocapacitive Electrodes. ACS Omega, 2021, 6, 19647-19655.	3.5	5
20	Phase Evolution in Lead-Free Cs-Doped FASnI₃ Hybrid Perovskites and Optical Properties. Journal of Physical Chemistry C, 2021, 125, 16903-16912.	3.1	11
21	Photoelectrochemical behavior of Si nanostructures grown by chemical vapor deposition using waste-biomass sources. Journal of Solid State Chemistry, 2021, 300, 122254.	2.9	4
22	Morphology-controlled fabrication of nanostructured WO3 thin films by magnetron sputtering with glancing angle deposition for enhanced efficiency photo-electrochemical water splitting. Ceramics International, 2021, 47, 34455-34462.	4.8	20
23	Tin(II) thiocyanate Sn(SCN)2 as an ultrathin anode interlayer in organic photovoltaics. Applied Physics Letters, 2021, 119, 063301.	3.3	4
24	Enhanced properties of low-cost carbon black-graphite counter electrode in DSSC by incorporating binders. Solar Energy, 2021, 225, 237-244.	6.1	26
25	Influence of nanometric microstructural development on thermophysical properties of lanthanum-doped strontium titanate. Materials Chemistry and Physics, 2021, 270, 124867.	4.0	2
26	Possibility of doping nitrogen into single-walled carbon nanotubes by Î³-irradiated N2 molecules. Radiation Physics and Chemistry, 2021, 186, 109524.	2.8	1
27	Work function alteration of the porous indium tin oxide nanorods film by electron beam irradiation technique. Radiation Physics and Chemistry, 2021, 188, 109664.	2.8	7
28	Preferential vertically oriented nanopillar perovskite induced by poly(9-vinylcarbazole) field-effect transistor. Synthetic Metals, 2021, 281, 116901.	3.9	1
29	Characterization broadband omnidirectional antireflection ITO nanorod films coating. Optical Materials, 2021, 121, 111545.	3.6	11
30	Experimental data of four-point probe, scanning electron microscopy, and near-edge X-ray fine structure of titanium (IV) isopropoxide and zirconium (IV) dioxide binders incorporated carbon-based counter electrode for dye-sensitized solar cells. Data in Brief, 2021, 39, 107487.	1.0	0
31	Synchrotron-based NEXAFS analysis of thermal-treated diamond-like carbon films. Radiation Physics and Chemistry, 2020, 175, 108271.	2.8	3
32	Electronic surface, optical and electrical properties of p â€“ GaN activated via in-situ MOCVD and ex-situ thermal annealing in InGaN/GaN LED. Materials Science in Semiconductor Processing, 2020, 106, 104757.	4.0	0
33	Philippine natural zeolite surface engineered with CuO nanowires via a one-step thermal decomposition route. Journal of the Australian Ceramic Society, 2020, 56, 803-809.	1.9	2
34	Thermal decomposition and structural variation by heating on hydrogenated amorphous carbon films. Diamond and Related Materials, 2020, 101, 107609.	3.9	6
35	Controlled growth of silver nanoparticles on indium tin oxide substrates by plasma-assisted hot-filament evaporation: Physical properties, composition, and electronic structure. Thin Solid Films, 2020, 693, 137686.	1.8	9
36	Effects of different exchanging ions on the band structure and photocatalytic activity of defect pyrochlore oxide: a case study on KNbTeO₆. Catalysis Science and Technology, 2020, 10, 978-992.	4.1	21

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37	The influence of Î³-irradiation on nitrogen configuration in nitrogen-doped single-walled carbon nanotubes. Diamond and Related Materials, 2020, 101, 107569.	3.9	3
38	Improvement of MAPbI3 perovskite blend with TiO2 nanoparticles as ReRAM device. Ceramics International, 2020, 46, 29041-29051.	4.8	10
39	Optimized shell thickness of NiSi/SiC core-shell nanowires grown by hot-wire chemical vapour deposition for supercapacitor applications. Thin Solid Films, 2020, 716, 138430.	1.8	4
40	Adsorptive, kinetics and regeneration studies of fluoride removal from water using zirconium-based metal organic frameworks. RSC Advances, 2020, 10, 18740-18752.	3.6	84
41	Work function modification of PEDOT:PSS by mixing with barium acetylacetonate. RSC Advances, 2020, 10, 17673-17680.	3.6	13
42	Interplay of negative electronic compressibility and capacitance enhancement in lightly-doped metal oxide Bi0.95La0.05FeO3 by quantum capacitance model. Scientific Reports, 2020, 10, 5153.	3.3	5
43	Influence of RF power and CH4 flow rate on properties of diamond-like carbon films deposited by PECVD technique. Radiation Physics and Chemistry, 2020, 176, 109073.	2.8	6
44	Effect of surface contamination on XANES analysis of DLC films. Radiation Physics and Chemistry, 2020, 171, 108752.	2.8	3
45	Spectroscopic studies of plasma-modified silver-exchanged zeolite and chitosan composites. Materials Chemistry and Physics, 2020, 250, 122980.	4.0	11
46	Improvement of dye-sensitized solar cell performance through introducing TiO2 in acetylene carbon black-graphite composite electrode. Thin Solid Films, 2020, 706, 138042.	1.8	6
47	Synchrotron-based spectroscopic analysis of diamond-like carbon films from different source gases. Radiation Physics and Chemistry, 2020, 173, 108944.	2.8	9
48	Electronic and Thermoelectric Properties of Graphene on 4H-SiC (0001) Nanofacets Functionalized with F4-TCNQ. Journal of Electronic Materials, 2020, 49, 6872-6880.	2.2	0
49	Structural and morphological dataset for rf-sputtered WC-Co thin films using synchrotron radiation methods. Data in Brief, 2019, 25, 104383.	1.0	2
50	Electronic band structure and conduction mechanism of mixed valence <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">T</mml:mi><mml:msup><mml:mrow><mml:mi mathvariant="normal">e</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup><mml:mi mathvariant="normal">T</mml:mi><mml:msup><mml:mrow><mml:mi mathvariant="normal">e</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup>	3.2	5
51	Diamond-like carbon films prepared by high power impulse magnetron sputtering. Materials Today: Proceedings, 2019, 17, 1549-1554.	1.8	2
52	Structural Analysis and Electrical Properties of Amorphous Carbon Thin Films. Materials Science Forum, 2019, 966, 66-71.	0.3	7
53	Influence of different morphology of carbon nanostructures on the structural and optical properties of decorated single crystalline hematite nanocubes for photoelectrochemical applications. Applied Surface Science, 2019, 498, 143845.	6.1	6
54	Spectroscopic study on amorphous tantalum oxynitride thin films prepared by reactive gas-timing RF magnetron sputtering. Applied Surface Science, 2019, 492, 99-107.	6.1	10

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55	Conformational distortion in solution processable PVK:TcTa blends and the effect on extra warm white organic phosphorescent light emitting diodes. Organic Electronics, 2019, 74, 1-6.	2.6	3
56	Low-Temperature Processed TiOx/Zn1â^'xCdxS Nanocomposite for Efficient MAPbIxCl1â^'x Perovskite and PCDTBT:PC70BM Polymer Solar Cells. Polymers, 2019, 11, 980.	4.5	4
57	Acetylene carbon black-graphite composite as low-cost and efficient counter electrode for dye-sensitized solar cells (DSSCs). Ionics, 2019, 25, 5585-5593.	2.4	28
58	Spectroscopic Analyses of Sputtered Aluminum Oxide Films with Oxygen Plasma Treatments. Materials Science Forum, 2019, 947, 96-100.	0.3	0
59	Oblique angle deposition of nanocolumnar TiZrN films via reactive magnetron co-sputtering technique: The influence of the Zr target powers. Current Applied Physics, 2019, 19, 894-901.	2.4	25
60	Observations of the initial stages on reactive gas-timing sputtered TaO thin films by dynamic in situ spectroscopic ellipsometery. Optical Materials, 2019, 92, 223-232.	3.6	9
61	Surface composition of MAPb(IxBr1â^'x)3 (0â€¯â‰¤â€¯xâ€¯â‰¤â€¯1) organic-inorganic mixed-halide perovskites. Applied Surface Science, 2019, 479, 311-317.	6.1	8
62	Structural, chemical and electronic differences between bare and nitrogen-doped carbon nanoparticles. Carbon Letters, 2019, 29, 255-262.	5.9	6
63	Enhancing the sensitivity of a surface plasmon resonance-based optical sensor for zinc ion detection by the modification of a gold thin film. RSC Advances, 2019, 9, 41729-41736.	3.6	26
64	Novel ZnO nanostructures on Philippine natural zeolite (PNZ) framework designed via thermal decomposition process of solution-based ZnCl2 precursor. Materials Research Express, 2019, 6, 015005.	1.6	7
65	Multiple resistive switching behaviours of CH3NH3PbI3 perovskite film with different metal electrodes. Applied Surface Science, 2019, 473, 194-202.	6.1	22
66	Grafting of acrylic acid onto microwave plasma-treated polytetrafluoroethylene (PTFE) substrates. Japanese Journal of Applied Physics, 2019, 58, SAAC02.	1.5	10
67	Enhanced performance of CH3NH3PbI3-based perovskite solar cells by tuning the electrical and structural properties of mesoporous TiO2 layer via Al and Mg doping. Solar Energy, 2019, 177, 374-381.	6.1	24
68	Synchrotron radiation x-ray photoelectron spectroscopic study of CdTe-in structures formed by laser-induced doping technique. AIP Conference Proceedings, 2018, , .	0.4	3
69	Laser Doped Layer in CdTe Diode Detectors Revealed by Synchrotron XPS. , 2018, , .		1
70	XPS and XAS preliminary studies of diamond-like carbon films prepared by HiPIMS technique. Journal of Physics: Conference Series, 2018, 1144, 012048.	0.4	9
71	Energy level alignment of blended organic semiconductors and electrodes at the interface. Current Applied Physics, 2018, 18, 982-992.	2.4	5
72	Enhanced ferromagnetism in mechanically exfoliated CVD-carbon films prepared by using adamantane as precursor. Applied Physics Letters, 2018, 112, .	3.3	2

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73	Electrical properties of (Cs1â^'xAx)Al0.33Te1.67O6 (AÂ=ÂK and Rb) mixed valence pyrochlores. Journal of Alloys and Compounds, 2017, 718, 215-222.	5.5	16
74	Ligand-Stabilized ZnO Quantum Dots: Molecular Dynamics and Experimental Study. Australian Journal of Chemistry, 2017, 70, 1110.	0.9	5
75	MeV ion exposure behaviour of PMMA resist polymer studied by synchrotron light spectroscopies. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 238-242.	1.4	2
76	Doping and energy band modulation of nanoporous electrodes for enhancing power conversion efficiency of dye-sensitized solar cells. Materials Research Bulletin, 2017, 95, 436-443.	5.2	5
77	Structural analysis of amorphous carbon films by spectroscopic ellipsometry, RBS/ERDA, and NEXAFS. Applied Physics Letters, 2017, 110, .	3.3	19
78	Low Pressure DC-Plasma System for the Modification of Polymeric Membrane Surfaces. Sains Malaysiana, 2017, 46, 783-793.	0.5	4
79	Commissioning of the soft x-ray undulator beamline at the Siam Photon Laboratory. AIP Conference Proceedings, 2016, , .	0.4	7
80	High efficiency solution processable organic light emitting diode through materials and interfacial engineering. , 2016, , .		0
81	Chemical modification of B4C cap layers on Pd/B4C multilayers. Applied Surface Science, 2016, 367, 347-353.	6.1	6
82	Crucial role of reactive pulse-gas on a sputtered Zn₃N₂ thin film formation. RSC Advances, 2016, 6, 94905-94910.	3.6	10
83	Electrostatic model of the energy-bending within organic semiconductors: experiment and simulation. Journal of Physics Condensed Matter, 2016, 28, 365002.	1.8	8
84	Investigation into the Gaussian density of states widths of organic semiconductors. Journal Physics D: Applied Physics, 2016, 49, 325106.	2.8	14
85	Highly efficient processable molybdenum trioxide as a hole blocking interlayer for super-yellow organic light emitting diode. Journal Physics D: Applied Physics, 2016, 49, 395105.	2.8	3
86	Interfacial behavior of resistive switching in ITOâ€"PVKâ€"Al WORM memory devices. Journal Physics D: Applied Physics, 2016, 49, 075104.	2.8	11
87	Study of Synchrotron Radiation Near-Edge X-Ray Absorption Fine-Structure of Amorphous Hydrogenated Carbon Films at Various Thicknesses. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	15
88	The dynamics of ultraviolet-induced oxygen vacancy at the surface of insulating SrTiO 3 (0 0 1). Applied Surface Science, 2015, 355, 210-212.	6.1	19
89	Facile synthesis of a Ag/MoS₂nanocomposite photocatalyst for enhanced visible-light driven hydrogen gas evolution. Catalysis Science and Technology, 2015, 5, 4133-4143.	4.1	95
90	Ultrasensitive Hydrogen Sensor Based on Pt-Decorated WO₃ Nanorods Prepared by Glancing-Angle dc Magnetron Sputtering. ACS Applied Materials & Interfaces, 2014, 6, 22051-22060.	8.0	116

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91	High efficiency solution processed fluorescent yellow organic light-emitting diode through fluorinated alcohol treatment at the emissive layer/cathode interface. Journal Physics D: Applied Physics, 2014, 47, 015106.	2.8	9
92	The effect of carbon contamination and argon ion sputtering on the work function of chlorinated indium tin oxide. Current Applied Physics, 2014, 14, 472-475.	2.4	16
93	A practical carbon dioxide gas sensor using room-temperature hydrogen plasma reduced graphene oxide. Sensors and Actuators B: Chemical, 2014, 193, 692-700.	7.8	248
94	Determination of energy levels at the interface between O2 plasma treated ITO/P3HTâ€‰:â€‰PCBM and PEDOTâ€‰:â€‰PSS/P3HTâ€‰:â€‰PCBM using angular-resolved x-ray and ultraviolet photoelectron spectroscopy. Journal Physics D: Applied Physics, 2014, 47, 055109.	2.8	15
95	Enhancement of the work function of indium tin oxide by surface modification using caesium fluoride. Journal Physics D: Applied Physics, 2013, 46, 475102.	2.8	15
96	A Comparative Investigation of a Pentacene Layer on Gold and PMMA in Bottom-Contact Pentacene Thin Film Transistors. Advanced Materials Research, 2013, 802, 27-31.	0.3	1
97	Anomalous change in dielectric constant of CaCu3Ti4O12 under violet-to-ultraviolet irradiation. Applied Physics Letters, 2013, 102, .	3.3	25
98	Photoemission Spectroscopy and Photoemission Electron Microscopy Beamline at the Siam Photon Laboratory. Journal of Physics: Conference Series, 2013, 425, 132020.	0.4	18
99	Oxidation of Zn in UHV environment at low temperature. Applied Surface Science, 2012, 258, 1955-1957.	6.1	6
100	Electronic Structure and Magnetic Anisotropy in Ni/Cu(001) from Angle-Resolved Photoemission Spectroscopy. Journal of the Physical Society of Japan, 2011, 80, 064706.	1.6	1
101	Electronic and Magnetic Structures in O/Cr(001) Surface from Angle-Resolved Photoemission Spectroscopy. Journal of the Physical Society of Japan, 2010, 79, 104710.	1.6	4
102	Final state interaction observed in M2,3VV Auger profile of Cu(110). Journal of Physics Condensed Matter, 2009, 21, 055007.	1.8	0
103	Electron affinity study of adamantane on Si(111). Applied Surface Science, 2009, 256, 934-936.	6.1	9
104	In situ monitoring of ZnO formation by photoemission spectroscopy. Applied Surface Science, 2009, 256, 980-983.	6.1	3
105	Performance of the BL4 Beamline for Surface and Interface Research at the Siam Photon Laboratory. AIP Conference Proceedings, 2007, , .	0.4	4
106	Angle-Resolved Photoemission Study of Electronic States in Ni(111) Surface with Oxygen Adsorption. Journal of the Physical Society of Japan, 2007, 76, 114702.	1.6	1
107	Design of the first undulator beamline for the Siam Photon Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 100-102.	1.6	10
108	Surface energy bands of p(1Ã—1)Cr(100) and p(1Ã—1)O/Cr(100). Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 409-412.	1.7	2

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109	Electronic structure of Sr2â^'xLaxFeMoO6. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 601-603.	1.7	7
110	The final state interaction in 3pâ€“3d resonance excitation of Ni(111). Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 569-571.	1.7	1
111	Angle-resolved photoemission spectroscopy measurements on (1Ã—1) and (5Ã—1) Pt(100). Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 613-615.	1.7	0
112	MVV super Costerâ€“Kronig spectra of nickel near the excitation threshold. Journal of Physics Condensed Matter, 2005, 17, 7029-7052.	1.8	1
113	Unusual electron-doping effects inSr2â^'xLaxFeMoO6observed by photoemission spectroscopy. Physical Review B, 2005, 72, .	3.2	15
114	The Commissioning Results of the First Beamline at the Siam Photon Laboratory. AIP Conference Proceedings, 2004, , .	0.4	0
115	Half-metallic density of states inSr2FeMoO6due to Hundâ€™s rule coupling. Physical Review B, 2002, 66, .	3.2	83
116	REINVESTIGATION OF THE ELECTRONIC STRUCTURE AND FERROMAGNETISM OF THE NONRECONSTRUCTED Cr(001) 1 Ã— 1 SURFACE. Surface Review and Letters, 2002, 09, 861-864.	1.1	3
117	Structural Analysis of Boron- and Nitrogen-Doped Amorphous Carbon Films from Bio-Product. Key Engineering Materials, 0, 860, 190-195.	0.4	2
118	The Investigation of SiO2 structure obtained from the combustion of rice husk. IOP Conference Series: Materials Science and Engineering, 0, 965, 012014.	0.6	0