Takako Nakamura

List of Publications by Year
in descending order

83	1,736	257101 24	315357 38
papers	citations	h-index	g-index

84	84	84	1722
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of Next-Generation Communication Components by Photoreaction Process. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 320-324.	0.1	0
2	Crystal-Plane Dependence of Nb-Doped Rutile TiO2 Single Crystals on Photoelectrochemical Water Splitting. Catalysts, 2019, 9, 725.	1.6	4
3	Lymphangiography and Post-lymphangiographic Multidetector CT for Preclinical Lymphatic Interventions in a Rabbit Model. CardioVascular and Interventional Radiology, 2019, 42, 448-454.	0.9	4
4	Control of Surface and Interface Functionality by Surface Photochemical Modification and Nanocoating Technologyâ€"Application to Joining of Dissimilar Materials with High Joint Strength for 5G FPCâ€". Journal of Japan Institute of Electronics Packaging, 2019, 22, 490-494.	0.0	1
5	Flexible humidity sensors composed of graphite-like carbon micro-pinecone arrays. RSC Advances, 2016, 6, 95342-95348.	1.7	21
6	WO₃ nanosponge photoanodes with high applied bias photon-to-current efficiency for solar hydrogen and peroxydisulfate production. Journal of Materials Chemistry A, 2016, 4, 17809-17818.	5.2	49
7	Gaseous Tribochemical Products of Hydrogenated DLC Film and Stainless Steel Pair in Air Detected by Mass Spectrometry. Tribology Letters, 2015, 57, 1.	1.2	12
8	The significant effect of heterojunction quality on photoelectrochemical water splitting in bilayer photoelectrodes: Rb_xWO₃thin films on RbLaNb₂O₇layers. Physical Chemistry Chemical Physics, 2014, 16, 26901-26908.	1.3	10
9	Rapid formation of black titania photoanodes: pulsed laser-induced oxygen release and enhanced solar water splitting efficiency. Journal of Materials Chemistry A, 2014, 2, 6762-6771.	5.2	52
10	Fabrication of sulfur-functionalized DLC films by photochemical modification and attachment of gold nanoparticles. Applied Surface Science, 2014, 317, 443-448.	3.1	3
11	Enhanced Jc of MOD-YBCO Films by Modifying Surface States of CeO2 Buffer Layers on Sapphire Substrates. Physics Procedia, 2013, 45, 177-180.	1.2	6
12	Photochemical modification of DLC films with oxygen functionalities and their chemical structure control. Diamond and Related Materials, 2013, 33, 16-19.	1.8	24
13	Simple Fabrication of Gd(III)-DTPA-Nanodiamond Particles by Chemical Modification for Use as Magnetic Resonance Imaging (MRI) Contrast Agent. Applied Physics Express, 2013, 6, 015001.	1.1	23
14	Sulfur-functionalized Diamond Powder Surface for Attachment of Gold and Biomolecules. Transactions of the Materials Research Society of Japan, 2013, 38, 415-418.	0.2	1
15	Surface Functionalization of Diamond Films by Photoreaction of Elemental Sulfur and Their Surface Properties. Japanese Journal of Applied Physics, 2012, 51, 085201.	0.8	4
16	Chemical modification of carbon films with fluorine functionalities using dry process. Diamond and Related Materials, 2012, 24, 107-110.	1.8	0
17	Surface Functionalization of Diamond Films by Photoreaction of Elemental Sulfur and Their Surface Properties. Japanese Journal of Applied Physics, 2012, 51, 085201.	0.8	8
18	DNAâ€sensor based on AlGaN/GaN high electron mobility transistor. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1626-1629.	0.8	29

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19	Chemical modification of diamond powder with optically active functionalities and its chiral recognition behavior. Applied Surface Science, 2010, 257, 1368-1370.	3.1	11
20	Hardness effect of stainless steel substrates on tribological properties of water-lubricated DLC films against AISI 440C ball. Wear, 2010, 268, 329-334.	1.5	7
21	Photochemical modification of diamond powder with sulfur functionalities and its behavior on gold surfaces. IOP Conference Series: Materials Science and Engineering, 2010, 16, 012002.	0.3	1
22	Tribological properties of polymer composites with diamond-like carbon flakes. Diamond and Related Materials, 2010, 19, 894-898.	1.8	5
23	Photochemical modification and functionalization of carbon surfaces with fluorine moieties. Diamond and Related Materials, 2010, 19, 374-381.	1.8	13
24	Photochemical modification of diamond powders with elemental sulfur and their surface-attachment behavior on gold surfaces. Physical Chemistry Chemical Physics, 2009, 11, 730-734.	1.3	32
25	The Preparation of Ag Nanoparticle-Modified Single-Walled Carbon Nanotubes and Their Antibacterial Activity. Biocontrol Science, 2009, 14, 133-138.	0.2	6
26	Amine-layer growth and electronic properties on H-terminated undoped single crystalline CVD diamond. Diamond and Related Materials, 2008, 17, 892-895.	1.8	3
27	Photochemical attachment of amine-layers on H-terminated undoped single crystalline CVD diamonds. Diamond and Related Materials, 2008, 17, 1376-1379.	1.8	5
28	Photochemical modification of single-walled carbon nanotubes with amino functionalities and their metal nanoparticles attachment. Diamond and Related Materials, 2008, 17, 559-562.	1.8	13
29	Roughness effect of mating ball on friction of diamond-like carbon film and friction mechanism in water and air environment. Diamond and Related Materials, 2008, 17, 860-863.	1.8	9
30	Photochemical Modification of Diamond and Related Materials with Fluorine Functionalities. Hyomen Kagaku, 2008, 29, 181-186.	0.0	0
31	Photochemical Modification of Diamond Films with Sulfur-Containing Functionalities. Japanese Journal of Applied Physics, 2007, 46, 348-350.	0.8	13
32	Chemical Modification of Carbon Materials with Sulfur Functionalities. Materials Research Society Symposia Proceedings, 2007, 1039, 1.	0.1	2
33	Chemical modification of single-walled carbon nanotubes with sulfur-containing functionalities. Diamond and Related Materials, 2007, 16, 1091-1094.	1.8	42
34	Inhomogeneous DNA bonding to polycrystalline CVD diamond. Diamond and Related Materials, 2007, 16, 1648-1651.	1.8	13
35	Formation of lubrication film of diamond-like carbon films in water and air environments against stainless steel and Cr-plated balls. Diamond and Related Materials, 2007, 16, 1336-1339.	1.8	21
36	Photochemical Amine Layer Formation on H-Terminated Single-Crystalline CVD Diamond. Chemistry of Materials, 2007, 19, 2852-2859.	3.2	37

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37	Alkene/Diamond Liquid/Solid Interface Characterization Using Internal Photoemission Spectroscopy. Langmuir, 2006, 22, 5645-5653.	1.6	31
38	Photochemical modification of nanodiamond films with perfluorooctyl functionalities. Diamond and Related Materials, 2006, 15, 678-681.	1.8	21
39	Antibacterial activity of fluorine incorporated DLC films. Diamond and Related Materials, 2006, 15, 1011-1014.	1.8	74
40	Low-friction behaviour of diamond-like carbon films in a water environment. Diamond and Related Materials, 2006, 15, 962-966.	1.8	39
41	Geometric Properties of Covalently Bonded DNA on Single-Crystalline Diamond. Journal of the American Chemical Society, 2006, 128, 3884-3885.	6.6	65
42	Sidewall Modification of Single-walled Carbon Nanotubes with Sulfur-containing Functionalities and Gold Nanoparticle Attachment. Chemistry Letters, 2006, 35, 742-743.	0.7	12
43	Photo- and electrochemical bonding of DNA to single crystalline CVD diamond. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3245-3272.	0.8	45
44	DNA Bonding to CVD Diamond Probed by Scanning Electron-, Fluorescence-, and Atomic force-Microscopy. Materials Research Society Symposia Proceedings, 2006, 956, 1.	0.1	0
45	Surface modification of diamond-like carbon films with perfluorooctyl functionalities and their surface properties. Surface Science, 2005, 580, 101-106.	0.8	32
46	Chemical modification of DLC films with perfluorooctyl functionality. Diamond and Related Materials, 2005, 14, 1019-1022.	1.8	10
47	Synthesis and characterization of fluorinated amorphous carbon films by reactive magnetron sputtering. Diamond and Related Materials, 2005, 14, 989-993.	1.8	34
48	Friction behaviour of Si-DLC/DLC multi layer films on steel substrate in water environment. Diamond and Related Materials, 2005, 14, 1089-1093.	1.8	23
49	Sidewall modification of single-walled carbon nanotubes using photolysis of perfluoroazooctaneElectronic supplementary information (ESI) available: Fig. S1. UV-vis-NIR spectra of pristine and modified SWNTs. See http://www.rsc.org/suppdata/cc/b4/b402206h/. Chemical Communications, 2004, , 1336.	2.2	25
50	Photochemical Modification of Diamond Films:â€‰ Introduction of Perfluorooctyl Functional Groups on Their Surface. Langmuir, 2004, 20, 5846-5849.	1.6	29
51	Sidewall modification of single-walled carbon nanotubes using photolysis of perfluoroazooctane. Diamond and Related Materials, 2004, 13, 1971-1974.	1.8	14
52	Properties of hydrogenated amorphous carbon thin films deposited by plasma-based ion implantation method. Diamond and Related Materials, 2004, 13, 1449-1453.	1.8	6
53	Tribological properties and characterization of DLC films deposited by pulsed bias CVD. Diamond and Related Materials, 2004, 13, 1500-1504.	1.8	91
54	Chemical modification of diamond films using photolysis of perfluoroazooctane. Diamond and Related Materials, 2004, 13, 1084-1087.	1.8	4

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55	Tribological properties of DLC films deposited on steel substrate with various surface roughness. Diamond and Related Materials, 2004, 13, 2211-2215.	1.8	53
56	Preparation of lithium niobate thin films on diamond-coated silicon substrate for surface acoustic devices. Diamond and Related Materials, 2003, 12, 1809-1813.	1.8	9
57	The characterization of nanocrystal graphite films deposited by ECR plasma sputtering. Diamond and Related Materials, 2003, 12, 2011-2015.	1.8	5
58	Synthesis of heterofullerene using a direct BN substitution reaction of fullerene. Diamond and Related Materials, 2003, 12, 1908-1911.	1.8	17
59	Chemical modification of diamond powder using photolysis of perfluoroazooctane. Chemical Communications, 2003, , 900-901.	2.2	42
60	Preparation of AlN and LiNbO3 thin films on diamond substrates by sputtering method. Diamond and Related Materials, 2002, 11, 408-412.	1.8	40
61	BN substitution reaction of fullerene using an excimer laser irradiation. Diamond and Related Materials, 2001, 10, 1228-1230.	1.8	16
62	The structure and tribological property of amorphous carbon and carbon nitride films prepared by ECR plasma sputtering method. Diamond and Related Materials, 2001, 10, 1093-1097.	1.8	23
63	Polycondensation/pyrolysis of tris-s-triazine derivatives leading to graphite-like carbon nitrides. Journal of Materials Chemistry, 2001, 11, 474-478.	6.7	141
64	Cross-checking of nanoelectrospray ionization mass spectrometry and computer simulation for the evaluation of the interaction strength of non-covalently bound enkephalins in solution. Journal of Mass Spectrometry, 2001, 36, 937-942.	0.7	6
65	Time-of-flight mass spectroscopic studies of positive ionic species generated by laser ablation of silicon carbide. Chemical Physics Letters, 2001, 340, 296-301.	1.2	20
66	Synthesis and Surface Acoustic Wave Property of Aluminum Nitride Thin Films Fabricated on Silicon and Diamond Substrates Using the Sputtering Method. Japanese Journal of Applied Physics, 2001, 40, 5065-5068.	0.8	23
67	Synthesis of Fischer-Type (Alkoxy)carbene Complexes Using Diphenylsulfonium Salts with Functionalized Alkyl Groups. Journal of Organic Chemistry, 2000, 65, 4796-4803.	1.7	21
68	Photolysis of perfluoroazooctane in an argon matrix. Physical Chemistry Chemical Physics, 2000, 2, 2535-2538.	1.3	2
69	Synthesis of heterofullerenes by laser ablation. Physical Chemistry Chemical Physics, 1999, 1, 2631-2633.	1.3	41
70	Synthesis of nitrogen-rich Bâ€“Câ€“N materials from melamine and boron trichloride. Journal of Materials Science, 1998, 33, 1281-1286.	1.7	22
71	Perfluorooctylation of aromatic compounds with perfluoroazooctane upon 185 nm irradiation in a two-phase system. Journal of the Chemical Society Perkin Transactions II, 1998, , 659-662.	0.9	14
72	Laser induced chemical and physical modifications of polymer films: dependence on the irradiation wavelength. Applied Surface Science, 1997, 109-110, 227-231.	3.1	35

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73	Irradiation Wavelength Selective Surface Modification of a Triazeno Polymer. Macromolecules, 1996, 29, 6301-6309.	2.2	23
74	Comparison of the transmission behavior of a triazeno-polymer with a theoretical model. Applied Physics A: Materials Science and Processing, 1996, 63, 257-265.	1.1	33
75	Single pulse threshold and transmission behaviour of a triazeno-polymer during pulsed UV-laser irradiation. Applied Surface Science, 1996, 96-98, 601-604.	3.1	14
76	Photolysis of Perfluoroazooctane in Perfluorohexane upon 185 nm Irradiation. Chemistry Letters, 1995, 24, 533-534.	0.7	6
77	A direct introduction of perfluorooctyl group into cycloalkanes using the photolysis of perfluoroazooctane upon 185 nm irradiation. Journal of the Chemical Society Chemical Communications, 1995, , 2027.	2.0	12
78	New Method for the Preparation of Alkoxycarbene Complexes of Chromium, Molybdenum, and Tungsten Using Sulfonium Salts. Chemistry Letters, 1994, 23, 1537-1540.	0.7	14
79	Perfluoroalkylation of Benzene by 185 nm Photolysis of Perfluoroazooctane. Chemistry Letters, 1994, 23, 1573-1576.	0.7	0
80	Synthesis of macrocyclic dilactones by cyclization of sulfonium salts. Journal of Organic Chemistry, 1992, 57, 3783-3789.	1.7	19
81	LACTONIZATION REACTIONS OF (Ï‰-CARBOXYALKYL)SULFONIUM SALTS. Phosphorus, Sulfur and Silicon and the Related Elements, 1992, 66, 59-65.	0.8	6
82	Intramolecular cyclization of (.omega.-carboxyalkyl)sulfonium salts. A novel synthesis of macrocyclic lactones. Journal of Organic Chemistry, 1989, 54, 5218-5223.	1.7	36
83	Novel Synthesis of Macrocyclic Lactones from Ï‰-Carboxyalkylsulfonium Salts. Chemistry Letters, 1988, 17, 1931-1932.	0.7	4