

Takako Nakamura

List of Publications by Year in descending order

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83
papers

1,736
citations

257101

24
h-index

315357

38
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all docs

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docs citations

84
times ranked

1722
citing authors

#	ARTICLE	IF	CITATIONS
1	Polycondensation/pyrolysis of tris-s-triazine derivatives leading to graphite-like carbon nitrides. <i>Journal of Materials Chemistry</i> , 2001, 11, 474-478.	6.7	141
2	Tribological properties and characterization of DLC films deposited by pulsed bias CVD. <i>Diamond and Related Materials</i> , 2004, 13, 1500-1504.	1.8	91
3	Antibacterial activity of fluorine incorporated DLC films. <i>Diamond and Related Materials</i> , 2006, 15, 1011-1014.	1.8	74
4	Geometric Properties of Covalently Bonded DNA on Single-Crystalline Diamond. <i>Journal of the American Chemical Society</i> , 2006, 128, 3884-3885.	6.6	65
5	Tribological properties of DLC films deposited on steel substrate with various surface roughness. <i>Diamond and Related Materials</i> , 2004, 13, 2211-2215.	1.8	53
6	Rapid formation of black titania photoanodes: pulsed laser-induced oxygen release and enhanced solar water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6762-6771.	5.2	52
7	WO ₃ nanosponge photoanodes with high applied bias photon-to-current efficiency for solar hydrogen and peroxydisulfate production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17809-17818.	5.2	49
8	Photo- and electrochemical bonding of DNA to single crystalline CVD diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 3245-3272.	0.8	45
9	Chemical modification of diamond powder using photolysis of perfluoroazooctane. <i>Chemical Communications</i> , 2003, , 900-901.	2.2	42
10	Chemical modification of single-walled carbon nanotubes with sulfur-containing functionalities. <i>Diamond and Related Materials</i> , 2007, 16, 1091-1094.	1.8	42
11	Synthesis of heterofullerenes by laser ablation. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2631-2633.	1.3	41
12	Preparation of AlN and LiNbO ₃ thin films on diamond substrates by sputtering method. <i>Diamond and Related Materials</i> , 2002, 11, 408-412.	1.8	40
13	Low-friction behaviour of diamond-like carbon films in a water environment. <i>Diamond and Related Materials</i> , 2006, 15, 962-966.	1.8	39
14	Photochemical Amine Layer Formation on H-Terminated Single-Crystalline CVD Diamond. <i>Chemistry of Materials</i> , 2007, 19, 2852-2859.	3.2	37
15	Intramolecular cyclization of (ω -carboxyalkyl)sulfonium salts. A novel synthesis of macrocyclic lactones. <i>Journal of Organic Chemistry</i> , 1989, 54, 5218-5223.	1.7	36
16	Laser induced chemical and physical modifications of polymer films: dependence on the irradiation wavelength. <i>Applied Surface Science</i> , 1997, 109-110, 227-231.	3.1	35
17	Synthesis and characterization of fluorinated amorphous carbon films by reactive magnetron sputtering. <i>Diamond and Related Materials</i> , 2005, 14, 989-993.	1.8	34
18	Comparison of the transmission behavior of a triazeno-polymer with a theoretical model. <i>Applied Physics A: Materials Science and Processing</i> , 1996, 63, 257-265.	1.1	33

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19	Surface modification of diamond-like carbon films with perfluorooctyl functionalities and their surface properties. <i>Surface Science</i> , 2005, 580, 101-106.	0.8	32
20	Photochemical modification of diamond powders with elemental sulfur and their surface-attachment behavior on gold surfaces. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 730-734.	1.3	32
21	Alkene/Diamond Liquid/Solid Interface Characterization Using Internal Photoemission Spectroscopy. <i>Langmuir</i> , 2006, 22, 5645-5653.	1.6	31
22	Photochemical Modification of Diamond Films: Introduction of Perfluorooctyl Functional Groups on Their Surface. <i>Langmuir</i> , 2004, 20, 5846-5849.	1.6	29
23	DNA sensor based on AlGaIn/GaN high electron mobility transistor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1626-1629.	0.8	29
24	Sidewall modification of single-walled carbon nanotubes using photolysis of perfluoroazooctane. Electronic supplementary information (ESI) available: Fig. S1. UV-vis-NIR spectra of pristine and modified SWNTs. See http://www.rsc.org/suppdata/cc/b4/b402206h/ . <i>Chemical Communications</i> , 2004, , 1336.	2.2	25
25	Photochemical modification of DLC films with oxygen functionalities and their chemical structure control. <i>Diamond and Related Materials</i> , 2013, 33, 16-19.	1.8	24
26	Irradiation Wavelength Selective Surface Modification of a Triazeno Polymer. <i>Macromolecules</i> , 1996, 29, 6301-6309.	2.2	23
27	The structure and tribological property of amorphous carbon and carbon nitride films prepared by ECR plasma sputtering method. <i>Diamond and Related Materials</i> , 2001, 10, 1093-1097.	1.8	23
28	Synthesis and Surface Acoustic Wave Property of Aluminum Nitride Thin Films Fabricated on Silicon and Diamond Substrates Using the Sputtering Method. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 5065-5068.	0.8	23
29	Friction behaviour of Si-DLC/DLC multi layer films on steel substrate in water environment. <i>Diamond and Related Materials</i> , 2005, 14, 1089-1093.	1.8	23
30	Simple Fabrication of Gd(III)-DTPA-Nanodiamond Particles by Chemical Modification for Use as Magnetic Resonance Imaging (MRI) Contrast Agent. <i>Applied Physics Express</i> , 2013, 6, 015001.	1.1	23
31	Synthesis of nitrogen-rich B-C-N materials from melamine and boron trichloride. <i>Journal of Materials Science</i> , 1998, 33, 1281-1286.	1.7	22
32	Synthesis of Fischer-Type (Alkoxy)carbene Complexes Using Diphenylsulfonium Salts with Functionalized Alkyl Groups. <i>Journal of Organic Chemistry</i> , 2000, 65, 4796-4803.	1.7	21
33	Photochemical modification of nanodiamond films with perfluorooctyl functionalities. <i>Diamond and Related Materials</i> , 2006, 15, 678-681.	1.8	21
34	Formation of lubrication film of diamond-like carbon films in water and air environments against stainless steel and Cr-plated balls. <i>Diamond and Related Materials</i> , 2007, 16, 1336-1339.	1.8	21
35	Flexible humidity sensors composed of graphite-like carbon micro-pinecone arrays. <i>RSC Advances</i> , 2016, 6, 95342-95348.	1.7	21
36	Time-of-flight mass spectroscopic studies of positive ionic species generated by laser ablation of silicon carbide. <i>Chemical Physics Letters</i> , 2001, 340, 296-301.	1.2	20

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37	Synthesis of macrocyclic dilactones by cyclization of sulfonium salts. <i>Journal of Organic Chemistry</i> , 1992, 57, 3783-3789.	1.7	19
38	Synthesis of heterofullerene using a direct BN substitution reaction of fullerene. <i>Diamond and Related Materials</i> , 2003, 12, 1908-1911.	1.8	17
39	BN substitution reaction of fullerene using an excimer laser irradiation. <i>Diamond and Related Materials</i> , 2001, 10, 1228-1230.	1.8	16
40	New Method for the Preparation of Alkoxy-carbene Complexes of Chromium, Molybdenum, and Tungsten Using Sulfonium Salts. <i>Chemistry Letters</i> , 1994, 23, 1537-1540.	0.7	14
41	Single pulse threshold and transmission behaviour of a triazeno-polymer during pulsed UV-laser irradiation. <i>Applied Surface Science</i> , 1996, 96-98, 601-604.	3.1	14
42	Perfluorooctylation of aromatic compounds with perfluoroazooctane upon 185 nm irradiation in a two-phase system. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 659-662.	0.9	14
43	Sidewall modification of single-walled carbon nanotubes using photolysis of perfluoroazooctane. <i>Diamond and Related Materials</i> , 2004, 13, 1971-1974.	1.8	14
44	Photochemical Modification of Diamond Films with Sulfur-Containing Functionalities. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 348-350.	0.8	13
45	Inhomogeneous DNA bonding to polycrystalline CVD diamond. <i>Diamond and Related Materials</i> , 2007, 16, 1648-1651.	1.8	13
46	Photochemical modification of single-walled carbon nanotubes with amino functionalities and their metal nanoparticles attachment. <i>Diamond and Related Materials</i> , 2008, 17, 559-562.	1.8	13
47	Photochemical modification and functionalization of carbon surfaces with fluorine moieties. <i>Diamond and Related Materials</i> , 2010, 19, 374-381.	1.8	13
48	A direct introduction of perfluorooctyl group into cycloalkanes using the photolysis of perfluoroazooctane upon 185 nm irradiation. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2027.	2.0	12
49	Sidewall Modification of Single-walled Carbon Nanotubes with Sulfur-containing Functionalities and Gold Nanoparticle Attachment. <i>Chemistry Letters</i> , 2006, 35, 742-743.	0.7	12
50	Gaseous Tribochemical Products of Hydrogenated DLC Film and Stainless Steel Pair in Air Detected by Mass Spectrometry. <i>Tribology Letters</i> , 2015, 57, 1.	1.2	12
51	Chemical modification of diamond powder with optically active functionalities and its chiral recognition behavior. <i>Applied Surface Science</i> , 2010, 257, 1368-1370.	3.1	11
52	Chemical modification of DLC films with perfluorooctyl functionality. <i>Diamond and Related Materials</i> , 2005, 14, 1019-1022.	1.8	10
53	The significant effect of heterojunction quality on photoelectrochemical water splitting in bilayer photoelectrodes: Rb_xWO_3 thin films on $\text{RbLaNb}_2\text{O}_7$ layers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26901-26908.	1.3	10
54	Preparation of lithium niobate thin films on diamond-coated silicon substrate for surface acoustic devices. <i>Diamond and Related Materials</i> , 2003, 12, 1809-1813.	1.8	9

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55	Roughness effect of mating ball on friction of diamond-like carbon film and friction mechanism in water and air environment. <i>Diamond and Related Materials</i> , 2008, 17, 860-863.	1.8	9
56	Surface Functionalization of Diamond Films by Photoreaction of Elemental Sulfur and Their Surface Properties. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 085201.	0.8	8
57	Hardness effect of stainless steel substrates on tribological properties of water-lubricated DLC films against AISI 440C ball. <i>Wear</i> , 2010, 268, 329-334.	1.5	7
58	LACTONIZATION REACTIONS OF (1-CARBOXYALKYL)SULFONIUM SALTS. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1992, 66, 59-65.	0.8	6
59	Photolysis of Perfluoroazooctane in Perfluorohexane upon 185 nm Irradiation. <i>Chemistry Letters</i> , 1995, 24, 533-534.	0.7	6
60	Cross-checking of nanoelectrospray ionization mass spectrometry and computer simulation for the evaluation of the interaction strength of non-covalently bound enkephalins in solution. <i>Journal of Mass Spectrometry</i> , 2001, 36, 937-942.	0.7	6
61	Properties of hydrogenated amorphous carbon thin films deposited by plasma-based ion implantation method. <i>Diamond and Related Materials</i> , 2004, 13, 1449-1453.	1.8	6
62	The Preparation of Ag Nanoparticle-Modified Single-Walled Carbon Nanotubes and Their Antibacterial Activity. <i>Biocontrol Science</i> , 2009, 14, 133-138.	0.2	6
63	Enhanced J_c of MOD-YBCO Films by Modifying Surface States of CeO ₂ Buffer Layers on Sapphire Substrates. <i>Physics Procedia</i> , 2013, 45, 177-180.	1.2	6
64	The characterization of nanocrystal graphite films deposited by ECR plasma sputtering. <i>Diamond and Related Materials</i> , 2003, 12, 2011-2015.	1.8	5
65	Photochemical attachment of amine-layers on H-terminated undoped single crystalline CVD diamonds. <i>Diamond and Related Materials</i> , 2008, 17, 1376-1379.	1.8	5
66	Tribological properties of polymer composites with diamond-like carbon flakes. <i>Diamond and Related Materials</i> , 2010, 19, 894-898.	1.8	5
67	Novel Synthesis of Macrocyclic Lactones from 1-Carboxyalkylsulfonium Salts. <i>Chemistry Letters</i> , 1988, 17, 1931-1932.	0.7	4
68	Chemical modification of diamond films using photolysis of perfluoroazooctane. <i>Diamond and Related Materials</i> , 2004, 13, 1084-1087.	1.8	4
69	Surface Functionalization of Diamond Films by Photoreaction of Elemental Sulfur and Their Surface Properties. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 085201.	0.8	4
70	Crystal-Plane Dependence of Nb-Doped Rutile TiO ₂ Single Crystals on Photoelectrochemical Water Splitting. <i>Catalysts</i> , 2019, 9, 725.	1.6	4
71	Lymphangiography and Post-lymphangiographic Multidetector CT for Preclinical Lymphatic Interventions in a Rabbit Model. <i>CardioVascular and Interventional Radiology</i> , 2019, 42, 448-454.	0.9	4
72	Amine-layer growth and electronic properties on H-terminated undoped single crystalline CVD diamond. <i>Diamond and Related Materials</i> , 2008, 17, 892-895.	1.8	3

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73	Fabrication of sulfur-functionalized DLC films by photochemical modification and attachment of gold nanoparticles. <i>Applied Surface Science</i> , 2014, 317, 443-448.	3.1	3
74	Photolysis of perfluoroazooctane in an argon matrix. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2535-2538.	1.3	2
75	Chemical Modification of Carbon Materials with Sulfur Functionalities. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1039, 1.	0.1	2
76	Photochemical modification of diamond powder with sulfur functionalities and its behavior on gold surfaces. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 16, 012002.	0.3	1
77	Sulfur-functionalized Diamond Powder Surface for Attachment of Gold and Biomolecules. <i>Transactions of the Materials Research Society of Japan</i> , 2013, 38, 415-418.	0.2	1
78	Control of Surface and Interface Functionality by Surface Photochemical Modification and Nanocoating Technology—Application to Joining of Dissimilar Materials with High Joint Strength for 5G FPC—. <i>Journal of Japan Institute of Electronics Packaging</i> , 2019, 22, 490-494.	0.0	1
79	Perfluoroalkylation of Benzene by 185 nm Photolysis of Perfluoroazooctane. <i>Chemistry Letters</i> , 1994, 23, 1573-1576.	0.7	0
80	DNA Bonding to CVD Diamond Probed by Scanning Electron-, Fluorescence-, and Atomic force-Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2006, 956, 1.	0.1	0
81	Chemical modification of carbon films with fluorine functionalities using dry process. <i>Diamond and Related Materials</i> , 2012, 24, 107-110.	1.8	0
82	Photochemical Modification of Diamond and Related Materials with Fluorine Functionalities. <i>Hyomen Kagaku</i> , 2008, 29, 181-186.	0.0	0
83	Development of Next-Generation Communication Components by Photoreaction Process. <i>Hyomen Cijutsu/Journal of the Surface Finishing Society of Japan</i> , 2021, 72, 320-324.	0.1	0