

Tsuyoshi Yoshitake

List of Publications by Year in descending order

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papers

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471509

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99
times ranked

451
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-induced novel ohmic contact formation for effective charge collection in diamond detectors. <i>Materials Science in Semiconductor Processing</i> , 2022, 139, 106370.	4.0	10
2	Monothetic Analysis and Response Surface Methodology Optimization of Calcium Alginate Microcapsules Characteristics. <i>Polymers</i> , 2022, 14, 709.	4.5	13
3	Evaluation of Hydrogen-Induced Blistering of Mo/Si Multilayers with a Capping Layer. <i>Plasma and Fusion Research</i> , 2022, 17, 1406005-1406005.	0.7	6
4	Correlated Electrical Conductivities to Chemical Configurations of Nitrogenated Nanocrystalline Diamond Films. <i>Nanomaterials</i> , 2022, 12, 854.	4.1	9
5	Formation of p-n⁺ diamond homojunctions by shallow doping of phosphorus through liquid emersion excimer laser irradiation. <i>Materials Research Letters</i> , 2022, 10, 666-674.	8.7	6
6	Temperature-Dependent Impedance Spectra of Nitrogen-Doped Ultrananocrystalline Diamond Films Grown on Si Substrates. <i>IEEE Access</i> , 2021, 9, 896-904.	4.2	2
7	Effects of substrate temperature and intermediate layer on adhesion, structural and mechanical properties of coaxial arc plasma deposition grown nanodiamond composite films on Si substrates. <i>Surface and Coatings Technology</i> , 2021, 417, 127185.	4.8	15
8	Physical Properties of Fe ₃ Si Films Coated through Facing Targets Sputtering after Microwave Plasma Treatment. <i>Coatings</i> , 2021, 11, 923.	2.6	6
9	Enhanced in-plane uniformity and breakdown strength of diamond Schottky barrier diodes fabricated on heteroepitaxial substrates. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBB05.	1.5	12
10	Diamond/ β -Ga ₂ O ₃ pn heterojunction diodes fabricated by low-temperature direct-bonding. <i>AIP Advances</i> , 2021, 11, .	1.3	15
11	Diode parameters and ultraviolet light detection characteristics of n-type silicon/p-type nanocrystalline diamond heterojunctions at different temperatures. <i>Thin Solid Films</i> , 2020, 709, 138222.	1.8	2
12	Diode Parameters and Equivalent Electrical Circuit Model of n-Type Silicon/B-Doped p-Type Ultrananocrystalline Diamond Heterojunctions Manufactured Through Coaxial Arc Plasma Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4884-4891.	0.9	0
13	Impact of annealing temperature and carbon doping on the wetting and surface morphology of semiconducting iron disilicide formed via radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2020, 709, 138248.	1.8	7
14	Analysis of Electrical Characteristics of Pd<i>n</i>-Nanocarbon/<i>p</i>-Si Heterojunction Diodes: By <i>C</i>-<i>V</i>-<i>f</i> and <i>G</i>/<i>w</i>-<i>V</i>-<i>f</i>. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-9.	2.7	9
15	Laser-Induced Phosphorus-Doped Conductive Layer Formation on Single-Crystal Diamond Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57619-57626.	8.0	13
16	Electrochemical detection characteristics of the composite films of boron-doped nanocrystalline diamond and amorphous carbon prepared using the coaxial arc plasma deposition method. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2020, 15, 1121-1122.	1.4	0
17	Near- and far-field Raman spectroscopic studies of nanodiamond composite films deposited by coaxial arc plasma. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	14
18	Impedance spectroscopy analysis of n-type (nitrogen-doped) ultrananocrystalline diamond/p-type Si heterojunction diodes. <i>Physica Scripta</i> , 2020, 95, 095803.	2.5	9

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19	Influence of Annealing Temperature on Mechanical and Wetting Properties of FeSi_2 Films Built Using Facing-Targets Direct-Current Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 621-628.	0.9	5
20	Wettability, Surface Morphology and Structural Properties of FeSi_2 Films Manufactured Through Usage of Radio-Frequency Magnetron Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5075-5081.	0.9	1
21	Structural evolution of laser-irradiated ultrananocrystalline diamond/amorphous carbon composite films prepared by coaxial arc plasma. <i>Applied Physics Express</i> , 2020, 13, 105503.	2.4	17
22	Light Detection and Carrier Transportation Mechanism in p-Type Si/n-Type Nanocrystalline FeSi_2 Heterojunctions Produced via Radio-Frequency Magnetron Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5082-5088.	0.9	1
23	Extraction of J_V , G/V and C/V Characteristics for p-Type Silicon/Intrinsic Ultrananocrystalline Diamond/n-Type Nanocrystalline Iron Disilicide Heterojunction Photodiodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 433-441.	0.9	0
24	Temperature Dependence of Alternating Current Impedance in n-Type Si/B-Doped p-Type Ultrananocrystalline Diamond Heterojunctions Produced Through Pulsed Laser Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 331-337.	0.9	0
25	Laser-induced structure transition of diamond-like carbon coated on cemented carbide and formation of reduced graphene oxide. <i>MRS Communications</i> , 2019, 9, 910-915.	1.8	12
26	Effect of Annealing on Surface Morphology and Wettability of NC-FeSi_2 Films Produced via Facing-Target Direct-Current Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6834-6840.	0.9	6
27	Enhanced hardness of nanocarbon films deposited on cemented tungsten carbide substrates by coaxial arc plasma deposition owing to employing silicon-doped graphite targets. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 075507.	1.5	6
28	J_V , G/V and C/V Characteristics of n-Type Si/B-Doped p-Type Ultrananocrystalline Diamond Heterojunctions Formed via Pulsed Laser Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6812-6820.	0.9	4
29	Negative bias effects on deposition and mechanical properties of ultrananocrystalline diamond/amorphous carbon composite films deposited on cemented carbide substrates by coaxial arc plasma. <i>Diamond and Related Materials</i> , 2019, 96, 67-73.	3.9	12
30	Electrical properties of boron-incorporated ultrananocrystalline diamond/hydrogenated amorphous carbon composite films. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	4
31	Formation of low resistivity layers on singlecrystalline diamond by excimer laser irradiation. <i>Diamond and Related Materials</i> , 2019, 95, 166-173.	3.9	12
32	Optical and structural characterization of ultrananocrystalline diamond/hydrogenated amorphous carbon composite films deposited via coaxial arc plasma. <i>Current Applied Physics</i> , 2019, 19, 143-148.	2.4	13
33	Diode Parameters of Heterojunctions Comprising p-Type Ultrananocrystalline Diamond Films and n-Type Si Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1567-1573.	0.9	4
34	Photovoltaic Properties and Series Resistance of p-Type Si/Intrinsic Si/n-Type Nanocrystalline FeSi_2 Heterojunctions Created by Utilizing Facing-Targets Direct-Current Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1445-1450.	0.9	4
35	Minority carrier lifetime in ultrananocrystalline diamond/hydrogenated amorphous carbon composite films. <i>Transactions of the Materials Research Society of Japan</i> , 2018, 43, 361-364.	0.2	3
36	Effects of Air Exposure on Hard and Soft X-ray Photoemission Spectra of Ultrananocrystalline Diamond/Amorphous Carbon Composite Films. <i>Coatings</i> , 2018, 8, 359.	2.6	5

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37	Production of p-type Si/n-type FeSi_2 Heterojunctions Using Facing Targets Direct Current Sputtering and Evaluation of Their Resistance and Interface State Density. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1701022.	1.8	7
38	Minority carrier lifetime in ultrananocrystalline diamond/hydrogenated amorphous carbon composite films. <i>Transactions of the Materials Research Society of Japan</i> , 2018, 43, 49-52.	0.2	1
39	Pulsed laser irradiation as a process of conductive surface formation on nanopolycrystalline diamond. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 118004.	1.5	1
40	Characterization and design optimization of heterojunction photodiodes comprising n-type ultrananocrystalline diamond/hydrogenated amorphous carbon composite and p-type Si. <i>Materials Science in Semiconductor Processing</i> , 2018, 86, 115-121.	4.0	13
41	Effects of hydrogenation on thermal conductivity of ultrananocrystalline diamond/amorphous carbon composite films prepared via coaxial arc plasma deposition. <i>Applied Physics Express</i> , 2018, 11, 065101.	2.4	2
42	Thermal Conductivity of Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films Prepared by Coaxial Arc Plasma Deposition. <i>ECS Transactions</i> , 2017, 75, 27-32.	0.5	3
43	Interface-state density estimation of n-type nanocrystalline FeSi_2 /p-type Si heterojunctions fabricated by pulsed laser deposition. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2017, 8, 035016.	1.5	1
44	Temperature-dependent current-voltage characteristics and ultraviolet light detection of heterojunction diodes comprising n-type ultrananocrystalline diamond/hydrogenated amorphous carbon composite films and p-type silicon substrates. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 07KD04.	1.5	11
45	Application of nitrogen-doped ultrananocrystalline diamond/hydrogenated amorphous carbon composite films for ultraviolet detection. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	21
46	Fabrication of Nanocomposite AlN Hard Coating Film by Reactive Coaxial Arc Plasma Deposition. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2017, 68, 735-737.	0.2	0
47	Low-temperature carrier transport properties of n-type ultrananocrystalline diamond/p-type Si heterojunction diodes. , 2016, , .		1
48	Evaluation of photovoltaic properties of nanocrystalline- FeSi_2 /Si heterojunctions. <i>Solid-State Electronics</i> , 2016, 123, 111-118.	1.4	9
49	Hard coating of ultrananocrystalline diamond/nonhydrogenated amorphous carbon composite films on cemented tungsten carbide by coaxial arc plasma deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	20
50	Effects of nitrogen doping on the electrical conductivity and optical absorption of ultrananocrystalline diamond/hydrogenated amorphous carbon films prepared by coaxial arc plasma deposition. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07LE01.	1.5	11
51	Room-temperature hard coating of ultrananocrystalline diamond/nonhydrogenated amorphous carbon composite films on tungsten carbide by coaxial arc plasma deposition. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 030302.	1.5	9
52	Synthesis method for ultrananocrystalline diamond in powder employing a coaxial arc plasma gun. <i>Applied Physics Express</i> , 2015, 8, 075101.	2.4	10
53	Hydrogenation effects on carrier transport in boron-doped ultrananocrystalline diamond/amorphous carbon films prepared by coaxial arc plasma deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 061514.	2.1	15
54	Near-Edge X-ray Absorption Fine-Structure Study on Hydrogenated Boron-Doped Ultrananocrystalline Diamond/Amorphous Carbon Composite Films Prepared by Coaxial Arc Plasma Deposition. <i>Transactions of the Materials Research Society of Japan</i> , 2015, 40, 243-246.	0.2	5

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55	Hardness and modulus of ultrananocrystalline diamond/hydrogenated amorphous carbon composite films prepared by coaxial arc plasma deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 205-210.	2.3	7
56	Influences of repetition rate of arc discharges on hardness and modulus of ultrananocrystalline diamond films prepared by coaxial arc plasma deposition. <i>Materials Research Express</i> , 2015, 2, 015021.	1.6	0
57	Electrical characteristics of nitrogen-doped ultrananocrystalline diamond/hydrogenated amorphous carbon composite films prepared by coaxial arc plasma deposition. <i>Applied Physics Express</i> , 2015, 8, 095101.	2.4	26
58	Carrier transport and photodetection in heterojunction photodiodes comprising n-type silicon and p-type ultrananocrystalline diamond/hydrogenated amorphous carbon composite films. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 050307.	1.5	10
59	Temperature-dependent interlayer coupling in $\text{Fe}_3\text{Si}/\text{Fe}_2\text{Si}$ artificial lattices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 323-328.	1.8	6
60	Chemical Bonding of Nitrogenated Ultrananocrystalline Diamond Films Deposited on Titanium Substrates by Pulsed Laser Deposition. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, M33-M38.	1.8	2
61	Near-infrared photodetection of $\hat{\Gamma}^2\text{-FeSi}_2/\text{Si}$ heterojunction photodiodes at low temperatures. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	38
62	Fabrication of mesa structural n-type nanocrystalline- $\text{FeSi}_2/\text{p-type Si}$ heterojunction photodiodes by liftoff technique combined with photolithography. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1785-1788.	0.8	9
63	Magnetoresistance effects in current-perpendicular-to-plane structures based on $\text{Fe}_3\text{Si}/\text{Fe}_2\text{Si}$ artificial lattices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1862-1865.	0.8	5
64	Influences of hydrogen passivation on NIR photodetection of n-type $\hat{\Gamma}^2\text{-FeSi}_2/\text{p-type Si}$ heterojunction photodiodes fabricated by facing-targets direct-current sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1396, .	0.1	1
65	Roles of boron in growth of diamond grains in ultrananocrystalline diamond/hydrogenated amorphous carbon composite films prepared by pulsed laser deposition. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1395, 69.	0.1	0
66	Deep-Ultraviolet Light Detection of p-Type Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films. <i>Applied Physics Express</i> , 2012, 5, 065202.	2.4	27
67	Preparation of Diamond Nanocrystallites in Powder by Using a Coaxial Arc Plasma Gun. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1395, 99.	0.1	0
68	Interface Properties of Nanocrystalline- $\text{FeSi}_2/\text{Crystalline-Si}$ Near-Infrared Heterojunction Photodiodes. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 1432-1438.	1.9	4
69	Fourier transform infrared spectroscopic study of nitrogen-doped ultrananocrystalline diamond/hydrogenated amorphous carbon composite films prepared by pulsed laser deposition. <i>Diamond and Related Materials</i> , 2011, 20, 1072-1075.	3.9	13
70	Near-Edge X-ray Absorption Fine-Structure Spectroscopic Study on Nitrogen-Doped Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films Prepared by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 08JD05.	1.5	3
71	Temperature-Dependent Current-Induced Magnetization Switching in $\text{Fe}_3\text{Si}/\text{Fe}_2\text{Si}/\text{Fe}_3\text{Si}$ Trilayered Films. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 08JD06.	1.5	3
72	Fabrication of n-type $\hat{\Gamma}^2\text{-FeSi}_2/\text{p-type Si}$ heterojunctions by pulsed laser deposition and their application to NIR photodiodes. , 2010, , .		0

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73	Structural and Physical Characteristics of Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films Deposited Using a Coaxial Arc Plasma Gun. Japanese Journal of Applied Physics, 2010, 49, 015503.	1.5	44
74	Formation of Ultrananocrystalline Diamond/Amorphous Carbon Composite Films in Vacuum Using Coaxial Arc Plasma Gun. Japanese Journal of Applied Physics, 2010, 49, 125503.	1.5	41
75	Nitrogen-Doped Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films Prepared by Pulsed Laser Deposition. Applied Physics Express, 2010, 3, 115102.	2.4	46
76	Optical emission spectroscopy of deposition process of ultrananocrystalline diamond/hydrogenated amorphous carbon composite films by using a coaxial arc plasma gun. Diamond and Related Materials, 2010, 19, 899-903.	3.9	16
77	X-ray photoemission spectroscopic study of ultrananocrystalline diamond/hydrogenated amorphous carbon composite films prepared by pulsed laser deposition. Diamond and Related Materials, 2010, 19, 911-913.	3.9	22
78	X-ray photoemission spectroscopy of nitrogen-doped UNCD/a-C:H films prepared by pulsed laser deposition. Diamond and Related Materials, 2010, 19, 510-513.	3.9	35
79	n-Type Nanocrystalline- FeSi_2 /p-Type Si Heterojunction Photodiodes Prepared at Room Temperature. IEEE Electron Device Letters, 2010, 31, 1428-1430.	3.9	16
80	Near-Edge X-ray Absorption Fine-Structure, X-ray Photoemission, and Fourier Transform Infrared Spectroscopies of Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films. Japanese Journal of Applied Physics, 2009, 48, 020222.	1.5	55
81	Time-Resolved Observation of Deposition Process of Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films in Pulsed Laser Deposition. Journal of Nanomaterials, 2009, 2009, 1-6.	2.7	15
82	Characterization of near-infrared n-type FeSi_2 /p-type Si heterojunction photodiodes at room temperature. Applied Physics Letters, 2009, 94, 222113.	3.3	63
83	n-type FeSi_2 /intrinsic-Si/p-type Si heterojunction photodiodes for near-infrared light detection at room temperature. Applied Physics Letters, 2009, 95, .	3.3	41
84	Effect of annealing for CuInS_2 thin films prepared from Cu-rich ternary compound. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1030-1033.	0.8	15
85	Near-Edge X-Ray Absorption Fine Structure of Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Films Prepared by Pulsed Laser Deposition. Journal of Nanomaterials, 2009, 2009, 1-5.	2.7	38
86	Preparation of KTiOPO_4 thin films on different substrates by pulsed laser deposition. International Journal of Advanced Manufacturing Technology, 2008, 38, 600-604.	3.0	6
87	Optical properties of ultrananocrystalline diamond/amorphous carbon composite films prepared by pulsed laser deposition. Diamond and Related Materials, 2008, 17, 1199-1202.	3.9	16
88	Photovoltaic properties of n-Type nanocrystalline- FeSi_2 /intrinsic-Si/p-Type Si heterojunctions fabricated by facing-targets DC sputtering. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	3
89	Electrical and Photovoltaic Properties of n-Type Nanocrystalline- FeSi_2 /p-Type Si Heterojunctions Prepared by Facing-Targets Direct-Current Sputtering at Room Temperature. Japanese Journal of Applied Physics, 2008, 47, 5420.	1.5	41
90	Spectral Absorption Properties of Ultrananocrystalline Diamond/Amorphous Carbon Composite Thin Films Prepared by Pulsed Laser Deposition. Japanese Journal of Applied Physics, 2007, 46, L936-L938.	1.5	56

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91	Epitaxy in Fe ₃ Si/FeSi ₂ Superlattices Prepared by Facing Target Direct-Current Sputtering at Room Temperature. Japanese Journal of Applied Physics, 2007, 46, 7846.	1.5	16
92	Ultrananocrystalline diamond prepared by pulsed laser deposition. Diamond and Related Materials, 2006, 15, 649-653.	3.9	19
93	Consideration of Growth Mechanism of Diamond Thin Films by Pulsed Laser Deposition. IEEJ Transactions on Fundamentals and Materials, 2003, 123, 939-944.	0.2	0
94	THE ROLES OF AMBIENT OXYGEN AND SUBSTRATE TEMPERATURE ON GROWTH OF DIAMOND THIN FILMS BY PULSED LASER DEPOSITION. International Journal of Modern Physics B, 2002, 16, 825-829.	2.0	3
95	Diode Parameters of Mesa Structural n-Type Nanocrystalline FeSi ₂ /p-Type Si Heterojunctions Prepared by Lift-Off Photolithography. Advanced Materials Research, 0, 1103, 91-96.	0.3	0
96	Ultrananocrystalline Diamond/Amorphous Carbon Composite Films Prepared by Laser Ablation of Graphite in Nitrogen and Hydrogen Atmosphere. Advanced Materials Research, 0, 1105, 274-279.	0.3	0
97	Enhanced Interlayer Coupling and Magnetoresistance Ratio in Fe ₃ Si/FeSi ₂ Superlattices. Applied Physics Express, 0, 1, 021302.	2.4	12
98	Impact of Laser-Induced Graphitization on Diamond Schottky Barrier Diodes. Physica Status Solidi (A) Applications and Materials Science, 0, , .	1.8	1