

Taro Nagahama

List of Publications by Year in descending order

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5279
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Boron Nitride Nanotubes Using Plasma-Assisted CVD Catalyzed by Cu Nanoparticles and Oxygen. <i>Nanomaterials</i> , 2021, 11, 651.	1.9	8
2	Large Inverse Tunnel Magnetoresistance in Magnetic Tunnel Junctions with an Fe ₃ O ₄ Electrode. <i>Physical Review Applied</i> , 2021, 15, .	1.5	16
3	Ultrahigh-Pressure Preparation and Catalytic Activity of MOF-Derived Cu Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 1040.	1.9	10
4	DFT calculation of square MoS ₂ nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 130, 114693.	1.3	3
5	Single Crystal Growth of π -Conjugated Large Molecules without Solubilizing Alkyl Chains via the Naphthalene Flux Method. <i>Crystal Growth and Design</i> , 2021, 21, 4683-4689.	1.4	6
6	Interaction between alkali metals and diamond: Etching and charge states of NV centers. <i>Carbon</i> , 2021, 182, 585-592.	5.4	4
7	Characterization of magnetic properties of ultrathin CoFe ₂ O ₄ films by utilizing magnetic proximity effect. <i>Solid State Communications</i> , 2020, 306, 113762.	0.9	2
8	Healing Sulfur Vacancies in Monolayer MoS ₂ by High-Pressure Sulfur and Selenium Annealing: Implication for High-Performance Transistors. <i>ACS Applied Nano Materials</i> , 2020, 3, 10462-10469.	2.4	24
9	NiCo ₂ O ₄ films fabricated by reactive molecular beam epitaxy and annealing in various oxygen atmospheres. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	12
10	Controlling the magnetic proximity effect and anomalous Hall effect in CoFe ₂ O ₄ /Pt by ionic gating. <i>Applied Physics Express</i> , 2020, 13, 063004.	1.1	4
11	Post-annealed graphite carbon nitride nanoplates obtained by sugar-assisted exfoliation with improved visible-light photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 369-378.	5.0	14
12	Sugar-assisted mechanochemical exfoliation of graphitic carbon nitride for enhanced visible-light photocatalytic performance. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8444-8455.	3.8	14
13	Tunnel magnetoresistance effect in a magnetic tunnel junction with a B ₂ -Fe ₃ Sn electrode. <i>AIP Advances</i> , 2019, 9, .	0.6	7
14	Growth Kinetics and Magnetic Property of Single-Crystal Fe Nanowires Grown via Vapor-Solid Mechanism Using Chemically Synthesized FeO Nanoparticle Catalysts. <i>Crystal Growth and Design</i> , 2019, 19, 7257-7263.	1.4	1
15	Synthesis of Carbon Nanotubes by Plasma-Enhanced Chemical Vapor Deposition Using Fe _{1-x} Mn _x O Nanoparticles as Catalysts: How Does the Catalytic Activity of Graphitization Affect the Yields and Morphology?. <i>Journal of Carbon Research</i> , 2019, 5, 46.	1.4	8
16	Synthesis of carbon-doped boron nitride nanosheets and enhancement of their room-temperature ferromagnetic properties. <i>Journal of Alloys and Compounds</i> , 2019, 792, 1206-1212.	2.8	11
17	Single crystal growth, structural analysis and electronic band structure of a nitrogen-containing polyacene Benzo[<i>i</i>]benzo[6,7]quinoxalino[2,3:9,10]phenanthro[4,5- <i>abc</i>]phenazine. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SBGG08.		3
18	Search for new nitrogen-doped carbon materials by compressing molecular crystals. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SBGG13.	0.8	2

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19	Synthesis of Mo _{1-x} Nb _x S ₂ thin films by separate-flow chemical vapor deposition with chloride sources. <i>Thin Solid Films</i> , 2018, 649, 171-176.	0.8	4
20	Semitransparent conductive carbon films synthesized by sintering spin-coated sp ³ -based network polymer. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 030302.	0.8	0
21	Catalytic chemical vapor deposition and structural analysis of MoS ₂ nanotubes. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 030304.	0.8	10
22	Rich interfacial chemistry and properties of carbon-doped hexagonal boron nitride nanosheets revealed by electronic structure calculations. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FL11.	0.8	3
23	Robustness of Voltage-induced Magnetocapacitance. <i>Scientific Reports</i> , 2018, 8, 14709.	1.6	12
24	Synthesis of metastable B2-type Fe ₃ Sn alloy epitaxial films and study of their magnetic properties. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 120302.	0.8	9
25	A thermocouple-based remote temperature controller of an electrically-floated sample for plasma CVD of nanocarbons with bias voltage. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 102, 244-248.	2.5	4
26	Inverse Tunnel Magnetocapacitance in Fe/Al-oxide/Fe ₃ O ₄ . <i>Scientific Reports</i> , 2017, 7, 2682.	1.6	15
27	Switching of the products by changing the size and shape of catalytic nanoparticles during CVD growth of MoS ₂ nanotubes. <i>CrystEngComm</i> , 2017, 19, 3915-3920.	1.3	11
28	Fabrication of Epitaxial Fe ₃ O ₄ Film on a Si(111) Substrate. <i>Scientific Reports</i> , 2017, 7, 7009.	1.6	10
29	N ₂ plasma etching processes of microscopic single crystals of cubic boron nitride. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 06HF01.	0.8	1
30	The magnetic properties of Fe ₃ O ₄ /nonmagnetic metal/Fe hybrid systems. <i>Applied Physics Letters</i> , 2017, 110, 212402.	1.5	2
31	Carbon-Doped Hexagonal Boron Nitride: Analysis as π -Conjugate Molecules Embedded in Two Dimensional Insulator. <i>Journal of Carbon Research</i> , 2016, 2, 2.	1.4	9
32	Accurate and stable equal-pressure measurements of water vapor transmission rate reaching the 10 ⁻⁶ g m ⁻² day ⁻¹ range. <i>Scientific Reports</i> , 2016, 6, 35408.	1.6	15
33	Chemical Vapor Deposition of MoS ₂ : Insight Into the Growth Mechanism by Separated Gas Flow Experiments. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 3223-3227.	0.9	7
34	Formation of bismuth-core-carbon-shell nanoparticles by bismuth immersion during plasma CVD synthesis of thin diamond films. <i>Diamond and Related Materials</i> , 2016, 69, 127-132.	1.8	4
35	Chemical Vapor Deposition of NbS ₂ from a Chloride Source with H ₂ Flow: Orientation Control of Ultrathin Crystals Directly Grown on SiO ₂ /Si Substrate and Charge Density Wave Transition. <i>Crystal Growth and Design</i> , 2016, 16, 4467-4472.	1.4	27
36	Investigation of epitaxial growth and tunnel magnetoresistance effects in magnetic tunnel junctions including spinel ferrite layers. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 118003.	0.8	27

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37	Colorful Carbon Nanopopcorns Formed by Codepositing C60 with Diamond-like Carbon Followed by Reaction with Water Vapor. <i>Chemistry Letters</i> , 2015, 44, 1205-1207.	0.7	4
38	Large magnetocapacitance effect in magnetic tunnel junctions based on Debye-Fröhlich model. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	21
39	Multilayered MoS2 nanoflakes bound to carbon nanotubes as electron acceptors in bulk heterojunction inverted organic solar cells. <i>Organic Electronics</i> , 2015, 17, 275-280.	1.4	21
40	Fabrication of Fe nanowires on yttrium-stabilized zirconia single crystal substrates by thermal CVD methods. <i>Journal of Applied Physics</i> , 2015, 117, 17D506.	1.1	14
41	Magnetic properties of epitaxial Fe3O4 films with various crystal orientations and tunnel magnetoresistance effect at room temperature. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	40
42	Diamond-like carbon doped with highly π -conjugated molecules by plasma-assisted CVD. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 010203.	0.8	4
43	Electrostatic model of solid-state capacitor with ionizable charge traps. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 088004.	0.8	1
44	Formation of graphite zigzag edges by cathodic electrochemical etching in acidic solution. <i>Carbon</i> , 2014, 67, 300-303.	5.4	7
45	Fe whisker growth revisited: effect of Au catalysis for [021 $\bar{1}$,] oriented nanowires with 100 nm diameter. <i>RSC Advances</i> , 2014, 4, 27620-27624.	1.7	4
46	Versatile Simple Doping Technique for Diamond by Solid Dopant Source Immersion during Microwave Plasma CVD. <i>Chemistry Letters</i> , 2014, 43, 1569-1571.	0.7	3
47	Estimation of Gas Permeation Characteristics of Ultrahigh Barrier Edge Sealing Materials from Asymptotic Solution of Diffusion Equation. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 05DA12.	0.8	2
48	In-Plane Orientation Control of 2,7-Diphenyl[1]benzothieno[3,2- <i>b</i>][1]benzothiophene Monolayer on Bismuth-Terminated Si(111) Vicinal Surfaces with Wettability Optimization. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11555-11561.	1.5	2
49	Influence of molecular structure on plasma carbonization of organic semiconductor molecules. <i>Journal of Physics: Conference Series</i> , 2013, 441, 012041.	0.3	0
50	Fabrication and characterization of photo-responsive organic p-type/n-type/piezoelectric tricolor superlattices. <i>Applied Physics Letters</i> , 2013, 103, 133305.	1.5	2
51	Fabrication of Piezoelectric Polyurea Films by Alternating Deposition. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 041603.	0.8	6
52	Solvent Effects on the Transient Characteristics of Liquid-Gate Field Effect Transistors with Silicon Substrate. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 111803.	0.8	0
53	Fabrication of ZnO Nanorods by Atmospheric-Pressure Solid-Source CVD Using Ethanol-Assisted Low-Temperature Vaporization. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 1287-1292.	2.0	1
54	Change in the Morphology of the Terrace Edges on Graphite Surfaces by Electrochemical Reduction. <i>Chemistry Letters</i> , 2012, 41, 187-188.	0.7	2

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55	Growth and magnetic properties of ultrathin Ni _{1+x} Fe ₂ O ₄ films for spin filter junctions. <i>Thin Solid Films</i> , 2011, 519, 8239-8242.	0.8	4
56	Quantitative Analysis of Coherent and Incoherent Tunneling Currents in MgO-Based Epitaxial Magnetic Tunnel Junctions. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 063003.	0.8	1
57	Origin of perpendicular magnetic anisotropy and evolution of magnetic domain structure of amorphous Pr TM B (TM=Fe, Co) films. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 900-908.	1.0	18
58	Hot electron transport in magnetic tunnel transistors with an epitaxial MgO tunnel barrier. <i>Applied Physics Letters</i> , 2010, 96, 112509.	1.5	9
59	High Magnetoresistance Ratio and Low Resistance ² Area Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. <i>Applied Physics Express</i> , 2010, 3, 053003.	1.1	80
60	Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	255
61	Spin-dependent tunneling in epitaxial Fe/Cr/MgO/Fe magnetic tunnel junctions with an ultrathin Cr(001) spacer layer. <i>Physical Review B</i> , 2009, 79, .	1.1	31
62	Inelastic tunneling spectra of MgO barrier magnetic tunneling junctions showing large magnon contribution. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	16
63	Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2009, 80, .	1.1	32
64	Quantitative measurement of voltage dependence of spin-transfer torque in MgO-based magnetic tunnel junctions. <i>Nature Physics</i> , 2008, 4, 37-41.	6.5	485
65	Controlled synthesis and characterization of Ag ₂ S films with varied microstructures and its role as asymmetric barrier layer in trilayer junctions with dissimilar electrodes. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	21
66	Enhanced Magnetotransport at High Bias in Quasimagnetic Tunnel Junctions with EuS Spin-Filter Barriers. <i>Physical Review Letters</i> , 2007, 99, 016602.	2.9	94
67	In situ scanning tunneling microscopy observations of polycrystalline MgO(001) tunneling barriers grown on amorphous CoFeB electrode. <i>Applied Physics Letters</i> , 2007, 91, 012507.	1.5	9
68	Bactericidal Effect of TiO ₂ on the Selected <i>Vibrio Parahaemolyticus</i> and Optimization Using Response Surface Methodology. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3709-3712.	0.9	2
69	Oscillation of giant tunneling magnetoresistance with respect to tunneling barrier thickness in fully epitaxial Fe ^{MgO} Fe magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007, 90, 252506.	1.5	43
70	Dependence on annealing temperatures of tunneling spectra in high-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Solid State Communications</i> , 2007, 143, 574-578.	0.9	23
71	Differential conductance measurements of low-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e649-e651.	1.0	7
72	The phenomena of spin-filter tunnelling. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 165202.	0.7	214

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73	Tunneling spectroscopy of magnetic tunnel junctions: Comparison between CoFeB/MgO/CoFeB and CoFeB/Al ₂ O ₃ /CoFeB. Journal of Applied Physics, 2006, 99, 08T309.	1.1	8
74	Giant tunneling magnetoresistance in MgO-based magnetic tunnel junctions and its industrial applications. , 2006, , .		0
75	Microscopic structures of MgO barrier layers in single-crystal Fe/MgO/Fe magnetic tunnel junctions showing giant tunneling magnetoresistance. Applied Physics Letters, 2006, 88, 251901.	1.5	8
76	Scanning tunneling microscopy observations of single-crystal Fe/MgO/Fe magnetic tunnel junctions. Journal of Applied Physics, 2006, 99, 08T308.	1.1	2
77	Magnetic Tunnel Junctions with Magnesium Oxide Barriers. Journal of Magnetism and Magnetic Materials, 2006, 11, 170-181.	0.2	5
78	Tunneling spectra of sputter-deposited CoFeB/MgO/CoFeB magnetic tunnel junctions showing giant tunneling magnetoresistance effect. Solid State Communications, 2005, 136, 611-615.	0.9	36
79	Giant tunneling magnetoresistance in fully epitaxial body-centered-cubic Co/MgO/Fe magnetic tunnel junctions. Applied Physics Letters, 2005, 87, 222508.	1.5	73
80	Atomically flat aluminum-oxide barrier layers constituting magnetic tunnel junctions observed by in situ scanning tunneling microscopy. Applied Physics Letters, 2005, 87, 171909.	1.5	10
81	Spin-Dependent Tunneling in Magnetic Tunnel Junctions with a Layered Antiferromagnetic Cr(001) Spacer: Role of Band Structure and Interface Scattering. Physical Review Letters, 2005, 95, 086602.	2.9	46
82	High Tunnel Magnetoresistance at Room Temperature in Fully Epitaxial Fe/MgO/Fe Tunnel Junctions due to Coherent Spin-Polarized Tunneling. Japanese Journal of Applied Physics, 2004, 43, L588-L590.	0.8	269
83	Giant room-temperature magnetoresistance in single-crystal Fe/MgO/Fe magnetic tunnel junctions. Nature Materials, 2004, 3, 868-871.	13.3	2,907
84	X-ray absorption and X-ray magnetic circular dichroism studies of a Co(0 0 1) monatomic layer at the interface with Al ₂ O ₃ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1489-E1490.	1.0	6
85	Quantum size effect in magnetic tunnel junctions with ultrathin Fe(001) electrodes. Journal of Applied Physics, 2002, 91, 7035.	1.1	14
86	Spin-Polarized Resonant Tunneling in Magnetic Tunnel Junctions. Science, 2002, 297, 234-237.	6.0	238
87	Cobalt spin arrangement in Co/Nd multilayers with depth-selectively inserted ⁵⁷ Fe probe layer. Journal Physics D: Applied Physics, 2002, 35, 2479-2483.	1.3	0
88	A large quantum-well oscillation of the TMR effect. Journal Physics D: Applied Physics, 2002, 35, 2427-2431.	1.3	6
89	Quantum-well effect in magnetic tunnel junctions with ultrathin single-crystal Fe(100) electrodes. Applied Physics Letters, 2001, 79, 4381-4383.	1.5	31
90	Electric resistance of magnetic domain wall in NiFe wires with CoSm pinning pads. Journal of Applied Physics, 2000, 87, 5648-5650.	1.1	13

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91	Magnetic Anisotropy in Co/Nd Multilayers with Depth-Selectively Inserted ⁵⁷ Fe Probe Layer. Acta Physica Polonica A, 2000, 97, 439-442.	0.2	1
92	Magneto-resistance of quasi-Bloch-wall induced in NiFe/CoSm exchange-spring bilayers. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1267-1268.	1.0	4
93	The magnetization process and magneto-resistance of exchange-spring bilayer systems. Journal Physics D: Applied Physics, 1998, 31, 43-49.	1.3	48
94	Magneto-resistance of Bloch-wall-type magnetic structures induced in NiFe/CoSm exchange-spring bilayers. Physical Review B, 1998, 58, 6442-6446.	1.1	66
95	Magneto-resistance studies of multilayers including hard magnetic CoSm layers. Journal of Magnetism and Magnetic Materials, 1996, 156, 299-300.	1.0	4
96	Reversible magnetization process and magneto-resistance of soft-magnetic (NiFe) /hard-magnetic (CoSm) bilayers. Journal of Magnetism and Magnetic Materials, 1996, 163, 75-79.	1.0	54
97	Quantum size effect in magnetic tunnel junctions with single-crystal ultrathin electrodes. , 0, , .		0
98	Spin-Transfer Switching and Thermal Stability in an FePt/Au/FePt Nanopillar Prepared by Alternate Monatomic Layer Deposition. Applied Physics Express, 0, 1, 041302.	1.1	23