

# Junji Tominaga

## List of Publications by Year in descending order

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377  
papers

12,315  
citations

34105

52  
h-index

32842

100  
g-index

385  
all docs

385  
docs citations

385  
times ranked

9657  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Plasmonic Photocatalyst Consisting of Silver Nanoparticles Embedded in Titanium Dioxide. Journal of the American Chemical Society, 2008, 130, 1676-1680.	13.7	1,422
2	Understanding the phase-change mechanism of rewritable optical media. Nature Materials, 2004, 3, 703-708.	27.5	1,193
3	Interfacial phase-change memory. Nature Nanotechnology, 2011, 6, 501-505.	31.5	630
4	An approach for recording and readout beyond the diffraction limit with an Sb thin film. Applied Physics Letters, 1998, 73, 2078-2080.	3.3	421
5	Multiple renal cysts, urinary concentration defects, and pulmonary emphysematous changes in mice lacking TAZ. American Journal of Physiology - Renal Physiology, 2008, 294, F542-F553.	2.7	241
6	Toward the Ultimate Limit of Phase Change in $\text{Ge}_2\text{Sb}_2\text{Te}_5$ . Nano Letters, 2010, 10, 414-419.	9.1	226
7	Raman scattering study of the a-GeTe structure and possible mechanism for the amorphous to crystal transition. Journal of Physics Condensed Matter, 2006, 18, 965-979.	1.8	186
8	Distortion-triggered loss of long-range order in solids with bonding energy hierarchy. Nature Chemistry, 2011, 3, 311-316.	13.6	178
9	Assays for aptamer-based platforms. Biosensors and Bioelectronics, 2012, 34, 1-11.	10.1	169
10	Raman scattering study of GeTe and $\text{Ge}_2\text{Sb}_2\text{Te}_5$ phase-change materials. Journal of Physics and Chemistry of Solids, 2007, 68, 1074-1078.	4.0	164
11	A Near-Field Recording and Readout Technology Using a Metallic Probe in an Optical Disk. Japanese Journal of Applied Physics, 2000, 39, 980-981.	1.5	163
12	Ferroelectric Order Control of the Dirac Semimetal Phase in $\text{GeTe}/\text{Sb}_2\text{Te}_3$ Superlattices. Advanced Materials Interfaces, 2014, 1, 1300027.	3.7	155
13	Topological Insulating in $\text{GeTe}/\text{Sb}_2\text{Te}_3$ Superlattice. Physical Review Letters, 2012, 109, 096802.	7.8	128
14	Rigid bubble pit formation and huge signal enhancement in super-resolution near-field structure disk with platinum-oxide layer. Applied Physics Letters, 2002, 81, 4697-4699.	3.3	127
15	Two-Dimensional Transition-Metal Dichalcogenides. Springer Series in Materials Science, 2016, , .	0.6	126
16	Direct Observation of Nitrogen Location in Molecular Beam Epitaxy Grown Nitrogen-Doped ZnO. Physical Review Letters, 2006, 96, 045504.	7.8	119
17	Local structure of crystallized GeTe films. Applied Physics Letters, 2003, 82, 382-384.	3.3	114
18	The Characteristics and the Potential of Super Resolution Near-Field Structure. Japanese Journal of Applied Physics, 2000, 39, 957-961.	1.5	111

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19	Single-stranded DNA (ssDNA) production in DNA aptamer generation. <i>Analyst, The</i> , 2012, 137, 1307.	3.5	111
20	Intrinsic complexity of the melt-quenched amorphous $\text{Ge}_2\text{Sb}_2\text{Te}_5$ $\text{Ge}_2\text{Sb}_2\text{Te}_5$	3.2	109
21	Local plasmon photonic transistor. <i>Applied Physics Letters</i> , 2001, 78, 2417-2419.	3.3	108
22	Pressure-Induced Site-Selective Disorder of $\text{Ge}_2\text{Sb}_2\text{Te}_5$ : A New Insight into Phase-Change Optical Recording. <i>Physical Review Letters</i> , 2006, 97, 035701.	7.8	100
23	Transcriptional activity of Pax3 is co-activated by TAZ. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 533-539.	2.1	98
24	Phase transition in crystalline GeTe: Pitfalls of averaging effects. <i>Physical Review B</i> , 2010, 82, .	3.2	95
25	Ultrafast optical manipulation of atomic arrangements in chalcogenide alloy memory materials. <i>Optics Express</i> , 2011, 19, 1260.	3.4	84
26	Label-free methods of reporting biomolecular interactions by optical biosensors. <i>Analyst, The</i> , 2013, 138, 3576.	3.5	83
27	Elongation of gold nanoparticles in silica glass by irradiation with swift heavy ions. <i>Physical Review B</i> , 2008, 78, .	3.2	81
28	Photoassisted amorphization of the phase-change memory alloy $\text{Ge}_2\text{Sb}_2\text{Te}_5$ $\text{Ge}_2\text{Sb}_2\text{Te}_5$	3.2	80
29	Ferroelectric catastrophe: beyond nanometre-scale optical resolution. <i>Nanotechnology</i> , 2004, 15, 411-415.	2.6	79
30	Optical switching property of a light-induced pinhole in antimony thin film. <i>Applied Physics Letters</i> , 1999, 75, 3114-3116.	3.3	76
31	Super-resolution by elliptical bubble formation with PtOx and AgInSbTe layers. <i>Applied Physics Letters</i> , 2003, 83, 1701-1703.	3.3	76
32	Vacancy-mediated three-center four-electron bonds in $\text{GeTe-Sb}_2\text{Te}_3$ $\text{GeTe-Sb}_2\text{Te}_3$	3.2	76
33	The Near-Field Super-Resolution Properties of an Antimony Thin Film. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L1323-L1325.	1.5	74
34	Electrical-field induced giant magnetoresistivity in (non-magnetic) phase change films. <i>Applied Physics Letters</i> , 2011, 99, 152105.	3.3	74
35	Giant multiferroic effects in topological $\text{GeTe-Sb}_2\text{Te}_3$ superlattices. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 014402.	6.1	73
36	Role of Ge Switch in Phase Transition: Approach using Atomically Controlled $\text{GeTe/Sb}_2\text{Te}_3$ Superlattice. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 5763.	1.5	68

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37	Transmitted signal detection of optical disks with a superresolution near-field structure. Applied Physics Letters, 1999, 75, 151-153.	3.3	67
38	Ferroelectric switching in epitaxial GeTe films. APL Materials, 2014, 2, .	5.1	67
39	The application of silver oxide thin films to plasmon photonic devices. Journal of Physics Condensed Matter, 2003, 15, R1101-R1122.	1.8	65
40	Chalcogenides. Springer Series in Materials Science, 2012, , .	0.6	65
41	High sensitivity sensors made of perforated waveguides. Optics Express, 2007, 15, 2592.	3.4	63
42	The order-disorder transition in GeTe: Views from different length-scales. Applied Physics Letters, 2011, 99, .	3.3	63
43	Monitoring Biomolecular Interactions on a Digital Versatile Disk: A BioDVD Platform Technology. ACS Nano, 2008, 2, 1885-1895.	14.6	62
44	Femtosecond structural transformation of phase-change materials far from equilibrium monitored by coherent phonons. Nature Communications, 2015, 6, 8367.	12.8	62
45	Self-organized van der Waals epitaxy of layered chalcogenide structures. Physica Status Solidi (B): Basic Research, 2015, 252, 2151-2158.	1.5	61
46	Crystallization-induced short-range order changes in amorphous GeTe. Journal of Physics Condensed Matter, 2004, 16, S5103-S5108.	1.8	58
47	Atomic Reconfiguration of van der Waals Gaps as the Key to Switching in GeTe/Sb <sub>2</sub> Te <sub>3</sub> Superlattices. ACS Omega, 2017, 2, 6223-6232.	3.5	58
48	Mirror-symmetric Magneto-optical Kerr Rotation using Visible Light in [(GeTe) <sub>2</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) <sub>1</sub> ] <sub>n</sub> Topological Superlattices. Scientific Reports, 2014, 4, 5727.	3.3	57
49	Enhanced crystallization of GeTe from an Sb <sub>2</sub> Te <sub>3</sub> template. Applied Physics Letters, 2012, 100, .	3.3	56
50	Why Phase-Change Media Are Fast and Stable: A New Approach to an Old Problem. Japanese Journal of Applied Physics, 2005, 44, 3345-3349.	1.5	55
51	Significant Volume Expansion as a Precursor to Ablation and Micropattern Formation in Phase Change Material Induced by Intense Terahertz Pulses. Scientific Reports, 2018, 8, 2914.	3.3	55
52	Silica-based monolithic sensing plates for waveguide-mode sensors. Optics Express, 2008, 16, 6408.	3.4	54
53	Study of the Crystallization of GeSbTe Films by Raman Spectroscopy. Japanese Journal of Applied Physics, 1999, 38, L322-L323.	1.5	53
54	Influence of Nanometric Holes on the Sensitivity of a Waveguide-Mode Sensor: Label-Free Nanosensor for the Analysis of RNA Aptamer-Ligand Interactions. Analytical Chemistry, 2008, 80, 6602-6609.	6.5	53

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55	Initial Structure Memory of Pressure-Induced Changes in the Phase-Change Memory Alloy $\text{Ge}_{2-x}\text{Sb}_x$ . Physical Review Letters, 2009, 103, 115502.	7.8	51
56	Instability and Spontaneous Reconstruction of Few-Monolayer Thick GaN Graphitic Structures. Nano Letters, 2016, 16, 4849-4856.	9.1	51
57	Structure of the optical phase change memory alloy, $\text{AgInSbTe}$ , determined by optical spectroscopy and electron diffraction. Journal of Applied Physics, 1997, 82, 3214-3218.	2.5	49
58	What is the Origin of Activation Energy in Phase-Change Film?. Japanese Journal of Applied Physics, 2009, 48, 03A053.	1.5	48
59	Electronic excitation-induced semiconductor-to-metal transition in monolayer $\text{MoTe}_2$ . Physical Review B, 2016, 94, .	3.0	48
60	A Sensitive Multilayered Structure Suitable for Biosensing on the BioDVD Platform. Analytical Chemistry, 2009, 81, 4963-4970.	6.5	47
61	Understanding Phase-Change Memory Alloys from a Chemical Perspective. Scientific Reports, 2015, 5, 13698.	3.3	47
62	A two-step process for growth of highly oriented $\text{Sb}_2\text{Te}_3$ using sputtering. AIP Advances, 2016, 6, .	1.3	47
63	Micro-optical nonlinearity of a silver oxide layer. Journal of Applied Physics, 2001, 89, 6139-6144.	2.5	45
64	Ultrafast dephasing of coherent optical phonons in atomically controlled $\text{GeTe/Sb}_2\text{Te}_3$ . Physical Review B, 2009, 79, .	3.2	45
65	Intrinsic Fluorescence and Quenching Effects in Photoactivated Reactively Sputtered Silver Oxide Layers. Journal of the American Chemical Society, 2001, 123, 7172-7173.	13.7	44
66	Measurements of Temperature Dependence of Optical and Thermal Properties of Optical Disk Materials. Japanese Journal of Applied Physics, 2006, 45, 1419-1421.	1.5	43
67	Thermal Origin of Readout Mechanism of Light-Scattering Super-Resolution Near-Field Structure Disk. Japanese Journal of Applied Physics, 2004, 43, L8-L10.	1.5	41
68	Chalcogenide glasses as prospective materials for optical memories and optical data storage. Journal of Materials Science: Materials in Electronics, 2003, 14, 677-680.	2.2	40
69	Measurement of the thermal conductivity of nanometer scale thin films by thermoreflectance phenomenon. Microelectronic Engineering, 2007, 84, 1792-1796.	2.4	40
70	THz Pulse Detection by Multilayered $\text{GeTe/Sb}_2\text{Te}_3$ . ACS Applied Materials & Interfaces, 2016, 8, 32408-32413.	8.0	40
71	Temperature Dependence of the Thermal Properties of Optical Memory Materials. Japanese Journal of Applied Physics, 2007, 46, 3909-3911.	1.5	39
72	Double Optical Phase Transition of $\text{GeSbTe}$ Thin Films Sandwiched between Two $\text{SiN}$ Layers. Japanese Journal of Applied Physics, 1998, 37, 1852-1854.	1.5	38

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73	Terahertz spectroscopic characterization of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> phase change materials for photonics applications. Journal of Materials Chemistry C, 2019, 7, 8209-8215.	5.5	38
74	On a thermally induced readout mechanism in super-resolution optical disks. Journal of Applied Physics, 2006, 100, 043106.	2.5	37
75	Origin of resistivity contrast in interfacial phase-change memory: The crucial role of Ge/Sb intermixing. Applied Physics Letters, 2019, 114, .	3.3	37
76	The Design and Application on Interfacial Phase-Change Memory. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800539.	2.4	37
77	Defining the function of $\beta$ -catenin tyrosine phosphorylation in cadherin-mediated cell-cell adhesion. Genes To Cells, 2008, 13, 67-77.	1.2	36
78	Resistive switching mechanism of GeTe/Sb <sub>2</sub> Te <sub>3</sub> interfacial phase change memory and topological properties of embedded two-dimensional states. Nanoscale, 2017, 9, 9386-9395.	5.6	36
79	Pressure-induced amorphization of quasibinary GeTe/Sb <sub>2</sub> Te <sub>3</sub> : The role of vacancies. Applied Physics Letters, 2007, 91, 021911.	3.3	35
80	Local instability of $p$ -type bonding makes amorphous GeTe a lone-pair semiconductor. Physical Review B, 2013, 87, .	3.2	35
81	Sensing strategies for influenza surveillance. Biosensors and Bioelectronics, 2014, 61, 357-369.	10.1	35
82	Ge L3-edge x-ray absorption near-edge structure study of structural changes accompanying conductivity drift in the amorphous phase of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> . Journal of Applied Physics, 2014, 115, .	2.5	34
83	Recording and Readout Mechanisms of Super-Resolution Near-Field Structure Disc with Silver-Oxide Layer. Japanese Journal of Applied Physics, 2003, 42, 1038-1039.	1.5	33
84	An optical biosensor based on localized surface plasmon resonance of silver nanostructured films. Journal of Optics, 2007, 9, 699-703.	1.5	33
85	Non-melting super-resolution near-field apertures in Sb-Te alloys. Applied Physics Letters, 2010, 97, 161906.	3.3	33
86	Laser switching and characterisation of chalcogenides: systems, measurements, and applicability to photonics [Invited]. Optical Materials Express, 2017, 7, 3741.	3.0	33
87	Super-Resolution Near-Field Structure and Signal Enhancement by Surface Plasmons. Japanese Journal of Applied Physics, 2001, 40, 1831-1834.	1.5	32
88	Temperature independence of pressure-induced amorphization of the phase-change memory alloy Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> . Applied Physics Letters, 2008, 93, .	3.3	32
89	Thermal decomposition of a thin AgOx layer generating optical near-field. Applied Physics Letters, 2004, 84, 1641-1643.	3.3	31
90	Existence of tetrahedral site symmetry about Ge atoms in a single-crystal film of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> found by x-ray fluorescence holography. Applied Physics Letters, 2007, 90, 131913.	3.3	31

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91	Thermal lithography for 0.1 $\mu$ m pattern fabrication. <i>Microelectronic Engineering</i> , 2002, 61-62, 415-421.	2.4	29
92	Ab-initio calculations and structural studies of (SiTe) <sub>2</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) <sub>n</sub> (n : 1, 2, 4 and 6) phase-change superlattice films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 302-306.	2.4	29
93	Sub-nanometre resolution of atomic motion during electronic excitation in phase-change materials. <i>Scientific Reports</i> , 2016, 6, 20633.	3.3	29
94	Magneto-optical disk properties enhanced by a nonmagnetic mask layer. <i>Applied Physics Letters</i> , 2000, 77, 1774.	3.3	28
95	Optical and Structural Property Change by the Thermal Decomposition of Amorphous Platinum Oxide Film. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 3479-3480.	1.5	28
96	Why DVDs work the way they do: The nanometer-scale mechanism of phase change in Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> alloys. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1612-1615.	3.1	28
97	Crystalline GeTe-based phase-change alloys: Disorder in order. <i>Physical Review B</i> , 2012, 86, .	3.2	28
98	Selective detection of tetrahedral units in amorphous GeTe-based phase change alloys using Ge L3-edge x-ray absorption near-edge structure spectroscopy. <i>Applied Physics Letters</i> , 2013, 102, 111904.	3.3	28
99	The size control of silver nano-particles in SiO <sub>2</sub> matrix film. <i>Nanotechnology</i> , 2005, 16, 1565-1568.	2.6	27
100	Liquid Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> studied by extended x-ray absorption. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	27
101	Excitation-Assisted Disordering of GeTe and Related Solids with Resonant Bonding. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10248-10253.	3.1	27
102	New Recordable Compact Disc with Inorganic Material, AgOx. <i>Japanese Journal of Applied Physics</i> , 1992, 31, 2757-2759.	1.5	26
103	Near-Field Optical Simulation of Super-Resolution Near-Field Structure Disks. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 1531-1535.	1.5	26
104	Optical Phase Change Disc without Bulk Laser Initialization and a Quick Bulk Initialization Structure. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 3598-3601.	1.5	25
105	Local structure of nitrogen in N-doped amorphous and crystalline GeTe. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	25
106	Ultra-low switching power, crystallographic analysis, and switching mechanism for Sn <sub>x</sub> Te <sub>100-x</sub> /Sb <sub>2</sub> Te <sub>3</sub> diluted superlattice system. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	25
107	The Effects of Metal-Doped GeSbTe Films on Light Scattering-Mode Super-Resolution Near-Field Structure (Super-RENS). <i>Japanese Journal of Applied Physics</i> , 2001, 40, 1629-1633.	1.5	24
108	Thermal Lithography for 100-nm Dimensions Using a Nano-Heat Spot of a Visible Laser Beam. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L1022-L1024.	1.5	24

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109	Optical transmittance study of silver particles formed by AgOx thermal decomposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 634-637.	2.1	24
110	A Magnetoresistance Induced by a Nonzero Berry Phase in GeTe/Sb <sub>2</sub> Te <sub>3</sub> Chalcogenide Superlattices. Advanced Functional Materials, 2017, 27, 1702243.	14.9	24
111	Phase-change optical recording: Past, present, future. Thin Solid Films, 2007, 515, 7534-7537.	1.8	23
112	Reduction in crystallization time of Sb:Te films through addition of Bi. Applied Physics Letters, 2008, 92, .	3.3	23
113	Evaluation of nucleic acid duplex formation on gold over layers in biosensor fabricated using Czochralski-grown single-crystal silicon substrate. Analytical and Bioanalytical Chemistry, 2010, 398, 751-758.	3.7	23
114	High-quality sputter-grown layered chalcogenide films for phase change memory applications and beyond. Journal Physics D: Applied Physics, 2020, 53, 284002.	2.8	23
115	High-Speed Optical Near-Field Photolithography by Super Resolution Near-Field Structure. Japanese Journal of Applied Physics, 1999, 38, L1079-L1081.	1.5	22
116	Oxygen Doping Effects on Super-resolution Scattering-mode Near-field Optical Data Storage. Japanese Journal of Applied Physics, 2000, 39, 2639-2642.	1.5	22
117	Superlattice Phase Change Memory Fabrication Process for Back End of Line Devices. Japanese Journal of Applied Physics, 2013, 52, 05FF01.	1.5	22
118	Antimony Aperture Properties on Super-Resolution Near-Field Structure using Different Protection Layers. Japanese Journal of Applied Physics, 1999, 38, 4089-4093.	1.5	21
119	Magneto-Optical Characteristics Enhanced by Super Resolution Near Field Structure. Japanese Journal of Applied Physics, 2001, 40, 1634-1636.	1.5	21
120	Surface-enhanced Raman scattering from Ag nanoparticles formed by visible laser irradiation of thermally annealed AgOx thin films. Journal of Applied Physics, 2006, 100, 074303.	2.5	21
121	Thermally-induced optical property changes of sputtered PdOx films. Thin Solid Films, 2007, 515, 4774-4777.	1.8	21
122	Local structure of the SnTe topological crystalline insulator: Rhombohedral distortions emerging from the rocksalt phase. Physical Review B, 2014, 90, .	3.2	21
123	<title>Superresolution structure for optical data storage by near-field optics</title>. , 1998, , .		20
124	Thermal Conductivity Measurements of SbTe Alloy Thin Films Using a Nanosecond Thermoreflectance Measurement System. Japanese Journal of Applied Physics, 2007, 46, 6863-6864.	1.5	20
125	A possible mechanism of ultrafast amorphization in phase-change memory alloys: an ion slingshot from the crystalline to amorphous position. Journal of Physics Condensed Matter, 2007, 19, 455209.	1.8	20
126	Toward Biological Diagnosis System Based on Digital Versatile Disc Technology. Japanese Journal of Applied Physics, 2007, 46, 4003-4006.	1.5	20



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127	Effect of doping on global and local order in crystalline GeTe. Applied Physics Letters, 2011, 98, .	3.3	20
128	Super-Resolutional Readout Disk with Metal-Free Phthalocyanine Recording Layer. Japanese Journal of Applied Physics, 2004, 43, L88-L90.	1.5	19
129	Thermal decomposition of sputtered thin PtOx layers used in super-resolution optical disks. Applied Physics Letters, 2005, 86, 121909.	3.3	19
130	High-speed fabrication of large-area nanostructured optical devices. Microelectronic Engineering, 2008, 85, 1197-1201.	2.4	19
131	Picosecond strain dynamics in $\text{Ge}_{1-x}\text{Te}_x$ by time-resolved x-ray diffraction. Physical Review B, 2014, 90, .	3.2	19
132	Compositional tuning in sputter-grown highly-oriented Bi $\delta$ Te films and their optical and electronic structures. Nanoscale, 2017, 9, 15115-15121.	5.6	19
133	In-Ag-Te-Sb Phase Change Recording Media at Compact Disk Linear Velocity. Japanese Journal of Applied Physics, 1993, 32, 5226-5229.	1.5	18
134	Thermal-induced optical properties of a PdOx mask layer in an optical data storage system with a superresolution near-field structure. Optics Express, 2003, 11, 2646.	3.4	18
135	The design of evanescent-field-coupled waveguide-mode sensors. Nanotechnology, 2008, 19, 095503.	2.6	18
136	A BioDVD Media with Multilayered Structure Is Suitable for Analyzing Biomolecular Interactions. Journal of Nanoscience and Nanotechnology, 2011, 11, 5682-5688.	0.9	18
137	Local atomic order of crystalline $\text{Sb}_2\text{Te}_3$ . Applied Physics Letters, 2011, 98, 121909.	3.2	18
138	Transport properties in a Sb $\delta$ Te binary topological-insulator system. Journal of Physics Condensed Matter, 2013, 25, 345801.	1.8	18
139	Strain engineering of atomic and electronic structures of few-monolayer-thick GaN. Physical Review Materials, 2017, 1, .	2.4	18
140	Optical transmittance study of the thermal decomposition of sputtered Pt $\delta$ Ag $\delta$ O films. Thin Solid Films, 2003, 425, 31-34.	1.8	17
141	Monitoring surface-assisted biomolecular assembly by means of evanescent-field-coupled waveguide-mode nanobiosensors. Analytical and Bioanalytical Chemistry, 2009, 394, 481-488.	3.7	17
142	Manipulating the Bulk Band Structure of Artificially Constructed van der Waals Chalcogenide Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 23918-23925.	8.0	17
143	Zener Tunneling Breakdown in Phase-Change Materials Revealed by Intense Terahertz Pulses. Physical Review Letters, 2018, 121, 165702.	7.8	17
144	Reactive recording with rare-earth transition metal. Applied Physics Letters, 2001, 79, 2600-2602.	3.3	16

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145	Signal Characteristics of Super-Resolution Near-Field Structure Disks with 100 GB Capacity. Japanese Journal of Applied Physics, 2005, 44, 3609-3611.	1.5	16
146	Biomolecular sensors utilizing waveguide modes excited by evanescent fields. Journal of Microscopy, 2008, 229, 320-326.	1.8	16
147	First Playback of High-Definition Video Contents from Super-Resolution Near-Field Structure Optical Disc. Japanese Journal of Applied Physics, 2010, 49, 08KE02.	1.5	16
148	Super-Resolution Near-Field Structure with Alternative Recording and Mask Materials. Japanese Journal of Applied Physics, 2003, 42, 1014-1017.	1.5	15
149	Soft X-ray XANES of N in ZnO:N " Why is doping so difficult?. Nuclear Instruments & Methods in Physics Research B, 2006, 246, 75-78.	1.4	15
150	Characteristics of nanostructured Ag films by the reduction of sputtered AgOxthin films. Nanotechnology, 2006, 17, 79-82.	2.6	15
151	Optical Disc Simulation Program Unified by Electromagnetic and Thermal Distributions. Japanese Journal of Applied Physics, 2006, 45, 1463-1465.	1.5	15
152	High-speed optical nanofabrication by platinum oxide nano-explosion. Journal of Optics, 2006, 8, S139-S143.	1.5	15
153	Temperature Dependence of Complex Refractive Index of Sputtered Sb-Te Alloy Thin Films. Japanese Journal of Applied Physics, 2007, 46, 5278.	1.5	15
154	Nanoscale pore fabrication for high sensitivity waveguide-mode biosensors. Microelectronic Engineering, 2007, 84, 1685-1689.	2.4	15
155	Mechanism of elongation of gold or silver nanoparticles in silica by irradiation with swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 941-943.	1.4	15
156	Polarization dependent optical control of atomic arrangement in multilayer Ge-Sb-Te phase change materials. Applied Physics Letters, 2012, 101, 232101.	3.3	15
157	A reconsideration of the thermodynamics of phase-change switching. Physica Status Solidi (B): Basic Research, 2012, 249, 1932-1938.	1.5	15
158	Athermal amorphization of crystallized chalcogenide glasses and phase-change alloys. Physica Status Solidi (B): Basic Research, 2014, 251, 1297-1308.	1.5	15
159	<title>Readout characteristics and mechanism of light-scattering-mode super-RENS disks</title> . , 2000, 4081, 86.		14
160	Electronic polarizabilities of Sr <sup>2+</sup> and Ba <sup>2+</sup> estimated from refractive indexes and molar volumes of molten SrCl <sub>2</sub> and BaCl <sub>2</sub> . Journal of Alloys and Compounds, 2002, 339, 309-316.	5.5	14
161	Super-RENS Disk for Blue Laser System Retrieving Signals from Polycarbonate Substrate Side. Japanese Journal of Applied Physics, 2005, 44, 3631-3633.	1.5	14
162	Carrier-to-noise ratio enhancement of super-resolution near-field structure disks by Ag nanostructure. Applied Physics Letters, 2006, 88, 051104.	3.3	14

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163	p-type conductivity of GeTe: The role of lone-pair electrons. Physica Status Solidi (B): Basic Research, 2012, 249, 1902-1906.	1.5	14
164	Coherent phonon study of (GeTe) <sub>1-x</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) <sub>x</sub> interfacial phase change memory materials. Applied Physics Letters, 2014, 105, 151902.	3.3	14
165	Local structure of the crystalline and amorphous states of Ga <sub>2</sub> Te alloy without resonant bonding: A combined x-ray absorption and <i>ab initio</i> study. Physical Review B, 2017, 95, .	3.2	14
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167	Nonlinear features and response mechanisms of a PtO <sub>2</sub> mask layer for optical data storage with a superresolution near-field structure. Optics Letters, 2003, 28, 1805.	3.3	13
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