

# Yasushi Fujimoto

## List of Publications by Year in descending order

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142  
papers

3,478  
citations

201674

27  
h-index

144013

57  
g-index

143  
all docs

143  
docs citations

143  
times ranked

2558  
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Luminescence from Bismuth-Doped Silica Glass. Japanese Journal of Applied Physics, 2001, 40, L279-L281.	1.5	510
2	Properties of transparent Ce:YAG ceramic phosphors for white LED. Optical Materials, 2011, 33, 688-691.	3.6	481
3	ePathBrick: A Synthetic Biology Platform for Engineering Metabolic Pathways in <i>E. coli</i> . ACS Synthetic Biology, 2012, 1, 256-266.	3.8	230
4	Optical amplification in bismuth-doped silica glass. Applied Physics Letters, 2003, 82, 3325-3326.	3.3	226
5	Cryogenic temperature characteristics of Verdet constant on terbium gallium garnet ceramics. Optics Express, 2007, 15, 11255.	3.4	120
6	Optical properties and Faraday effect of ceramic terbium gallium garnet for a room temperature Faraday rotator. Optics Express, 2011, 19, 15181.	3.4	114
7	Bi-doped SiO <sub>2</sub> as a new laser material for an intense laser. Fusion Engineering and Design, 1999, 44, 437-439.	1.9	96
8	Generation of picosecond hard x rays by tera watt laser focusing on a copper target. Applied Physics Letters, 1998, 73, 2393-2395.	3.3	92
9	Local Structure of the Infrared Bismuth Luminescent Center in Bismuth-Doped Silica Glass. Journal of the American Ceramic Society, 2010, 93, 581-589.	3.8	79
10	A novel method for uniform dispersion of the rare earth ions in SiO <sub>2</sub> glass using zeolite X. Journal of Non-Crystalline Solids, 1997, 215, 182-191.	3.1	70
11	Visible fiber lasers excited by GaN laser diodes. Progress in Quantum Electronics, 2013, 37, 185-214.	7.0	69
12	10-kJ PW laser for the FIREX-I program. European Physical Journal Special Topics, 2006, 133, 81-87.	0.2	66
13	Yellow laser oscillation in Dy <sup>3+</sup> -doped waterproof fluoro-aluminate glass fibre pumped by 398.8-nm GaN laser diodes. Electronics Letters, 2010, 46, 586.	1.0	64
14	<sup>27</sup> Al NMR structural study on aluminum coordination state in bismuth doped silica glass. Journal of Non-Crystalline Solids, 2006, 352, 2254-2258.	3.1	62
15	Local Structures of Bismuth Ion in Bismuth-Doped Silica Glasses Analyzed Using Bi L <sub>III</sub> X-ray Absorption Fine Structure. Journal of the American Ceramic Society, 2007, 90, 3596-3600.	3.8	55
16	Fast ignition integrated experiments with Gekko and LFEX lasers. Plasma Physics and Controlled Fusion, 2011, 53, 124029.	2.1	55
17	Spectroscopic properties and quantum yield of Cu-doped SiO <sub>2</sub> glass. Journal of Luminescence, 1997, 75, 213-219.	3.1	54
18	Fast ignition realization experiment with high-contrast kilo-joule peta-watt LFEX laser and strong external magnetic field. Physics of Plasmas, 2016, 23, .	1.9	54

#	ARTICLE	IF	CITATIONS
19	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024.	3.5	45
20	High-power direct green laser oscillation of 598 mW in Pr <sup>3+</sup> -doped waterproof fluoroaluminate glass fiber excited by two-polarization-combined GaN laser diodes. Optics Letters, 2011, 36, 1836.	3.3	39
21	Multi-colour laser oscillation in Pr <sup>3+</sup> -doped fluoro-aluminate glass fibre pumped by 442.6-nm GaN-semiconductor laser. Electronics Letters, 2009, 45, 1301.	1.0	36
22	Luminescence properties of highly Cr co-doped Nd:YAG powder produced by sol-gel method. Journal of Luminescence, 2010, 130, 455-459.	3.1	36
23	Drastic Photoluminescence Quenching of Perylene Derivative Membrane with Phthalocyanine Coating. Chemistry Letters, 2001, 30, 354-355.	1.3	31
24	Optical amplification in a bismuth-doped silica glass at 1300nm telecommunications window. Optics Communications, 2006, 266, 169-171.	2.1	31
25	High-power red laser oscillation of 311.4-mW in Pr <sup>3+</sup> -doped waterproof fluoro-aluminate glass fibre excited by GaN laser diode. Electronics Letters, 2010, 46, 1285.	1.0	31
26	Development of Nd-doped Optical Gain Material Based on Silica Glass with High Thermal Shock Parameter for High-Average-Power Laser. Japanese Journal of Applied Physics, 2005, 44, 1764-1770.	1.5	28
27	Ion diffusion at the bonding interface of undoped YAG/Yb:YAG composite ceramics. Optical Materials, 2015, 46, 542-547.	3.6	28
28	Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021.	3.5	27
29	Spectroscopy of Hard X-Rays (2-15 keV) Generated by Focusing Femtosecond Laser on Metal Targets. Japanese Journal of Applied Physics, 1999, 38, 6754-6756.	1.5	26
30	Nd <sup>3+</sup> :(La <sub>1-x</sub> Ba <sub>x</sub> )F <sub>3-x</sub> Grown by Micro-Pulling Down Method as Vacuum Ultraviolet Scintillator and Potential Laser Material. Japanese Journal of Applied Physics, 2007, 46, L985.	1.5	23
31	Ultrawideband Light Emission from Bismuth and Erbium Doped Silica. Japanese Journal of Applied Physics, 2007, 46, 1531-1532.	1.5	23
32	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. Physical Review E, 2015, 91, 063102.	2.1	23
33	Single-mode visible laser oscillation in Pr <sup>3+</sup> -doped double-clad structured waterproof fluoroaluminate glass fibre. Electronics Letters, 2016, 52, 861-863.	1.0	23
34	Enhancement of hard x-ray emission from a copper target by multiple shots of femtosecond laser pulses. Applied Physics Letters, 1999, 74, 1645-1647.	3.3	22
35	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. High Energy Density Physics, 2012, 8, 227-230.	1.5	22
36	40J class laser oscillation of Nd-doped silica glass with high thermal shock parameter. Applied Physics Letters, 2007, 90, 221108.	3.3	21

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37	Measurement of Magnet-Optical Property and Thermal Conductivity on TGG Ceramic for Faraday Material of High-Peak and High Average Power Laser. <i>The Review of Laser Engineering</i> , 2007, 35, 806-810.	0.0	20
38	Generation of orange pulse laser in waterproof fluoride glass fibre with graphene thin film. <i>Electronics Letters</i> , 2014, 50, 1470-1472.	1.0	20
39	Ultrafast observation of lattice dynamics in laser-irradiated gold foils. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	20
40	Planar shock wave generated by uniform irradiation from two overlapped partially coherent laser beams. <i>Journal of Applied Physics</i> , 2001, 89, 2571-2575.	2.5	19
41	Simultaneous Amplification at Two Wavelengths Near 1300 nm in a 6.5-cm-Long Bismuth-Doped Silica Glass. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1901-1903.	2.5	19
42	Laser-driven shock compression of synthetic planetary mixtures of water, ethanol, and ammonia. <i>Scientific Reports</i> , 2019, 9, 10155.	3.3	19
43	Vacuum ultraviolet optical properties of a micro-pulling-down-method grown Nd <sup>3+</sup> :(La <sub>0.09</sub> Ba <sub>0.01</sub> )F <sub>2.9</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, B27.	2.1	18
44	9.6 dB Gain at a 1310 nm Wavelength for a Bismuth-doped Fiber Amplifier. <i>Journal of the Optical Society of Korea</i> , 2007, 11, 63-66.	0.6	17
45	Pre-evaluation method for the spectroscopic properties of YAG bulk materials by sol-gel synthetic YAG powder. <i>Ceramics International</i> , 2009, 35, 2393-2399.	4.8	17
46	Parameter mapping survey on optimized sensitizing effect of Ce/Cr/Nd:YAG material for solar-pumped solid-state lasers. <i>Journal of Luminescence</i> , 2013, 143, 10-13.	3.1	16
47	Suppression of photo-darkening effect in Yb-doped silica glass fiber by co-doping of group 2 element. <i>Journal of Non-Crystalline Solids</i> , 2016, 440, 85-89.	3.1	16
48	Effect of GeO <sub>2</sub> additive on fluorescence intensity enhancement in bismuth-doped silica glass. <i>Journal of Materials Research</i> , 2007, 22, 565-568.	2.6	15
49	Laser Oscillation of Nd-Doped Silica Glass with High Thermal Shock Parameter. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 6936-6939.	1.5	14
50	Partially deuterated potassium dihydrogen phosphate optimized for ultra-broadband optical parametric amplification. <i>Journal of Applied Physics</i> , 2015, 117, 093103.	2.5	14
51	Millimeter-wave imaging using photonics-based noise source. , 2009, , .		13
52	ErN and HoN spherical regenerator materials for 4K cryocoolers. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	13
53	On the distribution of sociable numbers. <i>Journal of Number Theory</i> , 2009, 129, 1990-2009.	0.4	12
54	Short-length fiber laser oscillation in 4-mm Nd-doped silica fiber fabricated by zeolite method. <i>Optics Communications</i> , 2014, 328, 121-123.	2.1	12

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55	Visible Q-switched pulse laser oscillation in Pr-doped double-clad structured waterproof fluoride glass fiber with graphene. Optics Communications, 2018, 424, 13-16.	2.1	11
56	Laser oscillation in 5-cm Nd-doped silica fiber fabricated by zeolite method. Journal of Non-Crystalline Solids, 2011, 357, 963-965.	3.1	10
57	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 84-88.	1.6	10
58	Laser-Induced Shock Compression of Tantalum to 1.7 TPa. Japanese Journal of Applied Physics, 2000, 39, 1815-1816.	1.5	9
59	Picosecond Pulsed X-Ray Diffraction from a Pulsed Laser Heated Si(111). Japanese Journal of Applied Physics, 1999, 38, 4950-4951.	1.5	8
60	Time-Resolved X-ray Shadowgraphy Experiment of Laser Ablation of Aluminum using Laser-Induced Picosecond Pulsed X-rays. Japanese Journal of Applied Physics, 1999, 38, L242-L244.	1.5	8
61	Suppression of photo-darkening effect by Ca additive in Yb-doped silica glass fibre. Electronics Letters, 2013, 49, 148-149.	1.0	8
62	Bismuth-Doped Silica Glass as a New Laser Material. Journal of the Korean Physical Society, 2007, 51, 364.	0.7	7
63	Emission characteristics of Pr-doped Ga <sub>2</sub> S <sub>3</sub> -GeS <sub>2</sub> -CsX (X=Cl and Br) glasses in the visible region. Journal of Luminescence, 2017, 181, 14-18.	3.1	6
64	Heat treatment of transparent Yb:YAG and YAG ceramics and its influence on laser performance. Optical Materials, 2018, 79, 353-357.	3.6	6
65	Optical properties of Er <sup>3+</sup> heavily doped silica glass fabricated by zeolite method. Journal of Non-Crystalline Solids, 2020, 543, 120149.	3.1	6
66	New Infrared Luminescence from Bi-doped Glasses. , 2010, , .		5
67	Short-length CW laser of Nd <sup>3+</sup> heavily doped single-mode silica glass fiber fabricated by zeolite method. Optics Communications, 2020, 475, 126270.	2.1	5
68	Novel Faraday Rotator by Use of Cryogenic TGG Ceramics. The Review of Laser Engineering, 2008, 36, 1306-1309.	0.0	5
69	New material for high average power laser based on silica glass. Fusion Engineering and Design, 1999, 44, 431-435.	1.9	4
70	Optical amplification in a bismuth-doped silica fiber. Proceedings of SPIE, 2006, , .	0.8	4
71	Design of simple and compact tunable fibre laser. Electronics Letters, 2015, 51, 925-926.	1.0	4
72	2 W Single-Mode Visible Laser Oscillation in Pr-Doped Double-Clad Structured Waterproof Fluoro-Aluminate Glass Fiber. , 2019, , .		4

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73	A Novel Method for Quantum Yield Measurement of Luminescent Materials Using Integrating Sphere and Thermopile.. The Review of Laser Engineering, 1997, 25, 171-175.	0.0	4
74	High power amplification of solid-state Nd:YAG laser with short pulses of 300 ps/5 kHz. , 2005, , .		3
75	Development of Nd-doped optical gain material based on silica glass with a high thermal shock parameter for high-average-power laser. , 2005, , .		3
76	Amplification in a bismuth-doped silica glass at second telecommunication windows. , 2005, , .		3
77	Bismuth Doped Silica Glass and Fiber. The Review of Laser Engineering, 2010, 38, 869-875.	0.0	3
78	Luminescence Properties of Ce/Cr/Nd:YAG Materials for Solar-Pumped Lasers. The Review of Laser Engineering, 2010, 38, 207-212.	0.0	3
79	4K-GM Cryocooler Performance and Thermal Conductivity of HoxEr1-xN. Materials Research Society Symposia Proceedings, 2013, 1492, 53-58.	0.1	3
80	Improvement in the heating efficiency of fast ignition inertial confinement fusion through suppression of the preformed plasma. Nuclear Fusion, 2017, 57, 066022.	3.5	3
81	Optimization of loading ratio of ErN as regenerator of 4K-GM cryocooler. Journal of Physics: Conference Series, 2017, 897, 012008.	0.4	3
82	Conceptual Design of a Sub-Exa-Watts Laser System "GEKKO-EXA". The Review of Laser Engineering, 2014, 42, 179.	0.0	3
83	Structural analysis of Bi doped silica glasses by XAFS. , 2005, , .		2
84	Bismuth-doped Silica Fiber Amplifier. , 0, , .		2
85	Watt-order direct green laser oscillation at 522nm in Pr <sup>3+</sup> -doped waterproof fluoro-aluminate-glass fiber. , 2013, , .		2
86	Visible ns-pulse laser oscillation in Pr <sup>3+</sup> -doped double-clad structured waterproof fluoride glass fibre with SESAM. Journal of Engineering, 2017, 2017, 407-409.	1.1	2
87	Effect of GeO additive on fluorescence intensity enhancement in bismuth-doped silica glass. , 2007, , .		1
88	Pre-evaluation method for the spectroscopic properties of YAG bulk materials by sol-gel synthetic powder. IOP Conference Series: Materials Science and Engineering, 2011, 18, 102013.	0.6	1
89	Planar-core optical fibre laser. Electronics Letters, 2012, 48, 642.	1.0	1
90	New laser techniques for repeatable ultrahigh peak power laser beyond petawatt. , 2013, , .		1

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91	Suppression mechanism by Ca additive of photodarkening effect in Yb-doped silica glass fiber. , 2013, , .		1
92	Ion-induced gamma-ray detection of fast ions escaping from fusion plasmas. Review of Scientific Instruments, 2014, 85, 11E804.	1.3	1
93	2.6-GHz fundamental repetition rate, Q-switched mode-locking Nd <sup>3+</sup> -doped single-mode silica fiber laser, fabricated by zeolite method. Optics Communications, 2021, 497, 127151.	2.1	1
94	Laser oscillation in low photo-darkening Yb-doped silica glass fiber by co-doping of group-2 element. , 2016, , .		1
95	Regenerator Material of Rare Earth Nitride (Ho <sub>x</sub> Er <sub>1-x</sub> N) for a 4 K-GM Cryocooler. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2015, 50, 132-136.	0.1	1
96	Conceptual design of laser fusion reactor KOYO-fast â€œ Concepts of reactor system and laser driver. European Physical Journal Special Topics, 2006, 133, 837-839.	0.2	1
97	Visible laser oscillation in single-mode Pr-doped double-clad structured waterproof fluoro-aluminate glass fiber. , 2016, , .		1
98	New Nd:doped SiO <sub>2</sub> material for high average power laser. AIP Conference Proceedings, 1996, , .	0.4	0
99	New fluorescence from Bi-doped silica glass and its 1.3- $\mu$ m emission with 0.8- $\mu$ m excitation for fiber amplifier. , 0, , .		0
100	A fluorescence spectrum at 1.3 $\mu$ m of bismuth-doped silica glass with 0.8 $\mu$ m excitation. , 2001, , .		0
101	New fluorescence at 1.3- $\mu$ m emission with 0.8- $\mu$ m excitation from Bi-doped silica glass. , 0, , .		0
102	Progress in understanding of laser-produced plasmas for EUV source. , 0, , .		0
103	Laser Oscillation of Nd-doped Optical Gain Medium Based on Silica Glass with a High Thermal Shock Parameter for High -Average- Power Laser. , 0, , .		0
104	Development of New Laser Medium on Dispersed Nano-crystals in Liquid. , 0, , .		0
105	High Power and High Repetition Nd: YAG Laser Pumped by cw Laser Diodes. , 0, , .		0
106	Optical amplification in the 1300nm telecommunications window in a Bi-doped silica fiber. , 2006, , .		0
107	Development of 50J Class Repetitive Laser Based on Nd-doped Silica Glass. , 2007, , .		0
108	Development of 50J class repetitive laser based on Nd-doped silica glass. , 2007, , .		0

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109	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_{3-x}$ as vacuum ultraviolet scintillator and new laser material. , 2007, , .		0
110	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_{3-x}$ as Vacuum Ultraviolet Scintillator and New Laser Material. , 2007, , .		0
111	Effect of $\text{GeO}_2$ additive on fluorescence intensity enhancement in bismuth-doped silica glass. , 2007, , .		0
112	Development of 50J Class Repetitive Laser Based on Nd-doped Silica Glass. , 2007, , .		0
113	10.6 dB gain at a 1310 nm wavelength for a bismuth-doped silica fiber amplifier. , 2007, , .		0
114	Technological Challenge and Activation of High-Energy PW Laser LFEX. , 2007, , .		0
115	Development of 40J Class Repetitive Laser Based on Nd-doped Silica Glass. , 2007, , .		0
116	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_{3-x}$ Grown via Micro-PD as New Vacuum Ultraviolet Scintillator and Potential Laser Material. , 2007, , .		0
117	Ultra broadband gain from a Bismuth-doped glass waveguide fabricated using ultrafast laser inscription. , 2008, , .		0
118	A broadband light source in near infrared region generated by a bismuth-doped silica fiber. , 2009, , .		0
119	Bi-doped glasses for broadband fiber light source. , 2009, , .		0
120	Stimulated emission cross sections of Pr doped fluoride glass evaluated by Judd-Ofelt analysis. , 2009, , .		0
121	Demonstration of 4-mm short length fiber laser oscillation in Nd-doped silica fiber fabricated by zeolite method. , 2011, , .		0
122	Optical properties and Faraday effects on terbium gallium garnet ceramics for Faraday rotator. , 2011, , .		0
123	Laser oscillation in 4-cm single-transverse-mode Nd-doped silica fiber fabricated by zeolite method. , 2011, , .		0
124	Laser demonstration in short length single-mode Nd-doped silica fiber fabricated by zeolite method. , 2012, , .		0
125	Conceptual study on planar-core optical fiber for high power fiber lasers. , 2012, , .		0
126	Suppression of photo-darkening by Ca additive in Yb-doped silica fiber. , 2013, , .		0



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127	Rare earth doped fiber lasers based on zeolite method. , 2015, , .		0
128	Visible Q-switched pulse generation in Pr-doped double-clad structured waterproof fluoro-aluminate glass fiber. , 2017, , .		0
129	Simple CW-UV generator by SHG technique with double-clad Pr-doped waterproof fluoro-aluminate glass fiber laser. , 2021, , .		0
130	Femtosecond Time-Resolved Optical Polarigraphy (FTOP) and Its Application. The Review of Laser Engineering, 2000, 28, 147-148,155.	0.0	0
131	Report on APLS2004. The Review of Laser Engineering, 2004, 32, 423-425.	0.0	0
132	Development of High Repetition LD-Pumped Solid-State Laser. The Review of Laser Engineering, 2004, 32, 763-768.	0.0	0
133	Characteristics of 1.3- $\mu$ m Optical Amplification in Bismuth-Doped Silica Glass with 0.8- $\mu$ m Excitation. The Review of Laser Engineering, 2005, 33, 481-483.	0.0	0
134	Development of High-Average-Power Laser Based on Silica Glass. The Review of Laser Engineering, 2007, 35, 657-662.	0.0	0
135	Evaluation of Fluorescence Property of Doped-YAG Ceramic Powder Produced by Sol-Gel Method. The Review of Laser Engineering, 2007, 35, 393-397.	0.0	0
136	Implantation of Bi infrared luminescent center in the lithium niobate crystal structure. , 2008, , .		0
137	Optical Properties of Micro-Pulling Down Method Grown Nd <sup>3+</sup> :(La <sub>1-x</sub> Ba <sub>x</sub> )F <sub>3-x</sub> as Potential Vacuum Ultraviolet Laser Material and Scintillator. The Review of Laser Engineering, 2008, 36, 1303-1305.	0.0	0
138	Development on advanced functional optical materials and fibers. , 2013, , .		0
139	Report on CLEO/QELS '96.. The Review of Laser Engineering, 1996, 24, 910-932.	0.0	0
140	CPM-FCM Joint Operation of a Nd: YAG Laser and Pulse Compression. The Review of Laser Engineering, 1997, 25, 3-6,11.	0.0	0
141	Visible Pulse Fiber Laser Oscillation Properties Enhanced by Improved Transcription Method of Graphene Saturable Absorber Mirror. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1506-1510.	0.2	0
142	Examination optical education role of university for optical industry and efforts at Chiba Institute of Technology. , 2019, , .		0