

# 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	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
2	Simple CW-UV generator by SHG technique with double-clad Pr-doped waterproof fluoro-aluminate glass fiber laser. , 2021, , .		0
3	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
4	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
5	Laser-driven shock compression of synthetic planetary mixtures of water, ethanol, and ammonia. Scientific Reports, 2019, 9, 10155.	3.3	19
6	2 W Single-Mode Visible Laser Oscillation in Pr-Doped Double-Clad Structured Waterproof Fluoro-Aluminate Glass Fiber. , 2019, , .		4
7	Examination optical education role of university for optical industry and efforts at Chiba Institute of Technology. , 2019, , .		0
8	Heat treatment of transparent Yb:YAG and YAG ceramics and its influence on laser performance. Optical Materials, 2018, 79, 353-357.	3.6	6
9	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
10	Ultrafast observation of lattice dynamics in laser-irradiated gold foils. Applied Physics Letters, 2017, 110, .	3.3	20
11	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
12	Optimization of loading ratio of ErN as regenerator of 4K-GM cryocooler. Journal of Physics: Conference Series, 2017, 897, 012008.	0.4	3
13	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
14	Visible Q-switched pulse generation in Pr-doped double-clad structured waterproof fluoro-aluminate glass fiber. , 2017, , .		0
15	Visible ns-pulse laser oscillation in Pr-doped double-clad structured waterproof fluoride glass fibre with SESAM. Journal of Engineering, 2017, 2017, 407-409.	1.1	2
16	Single-mode visible laser oscillation in Pr-doped double-clad structured waterproof fluoroaluminate glass fibre. Electronics Letters, 2016, 52, 861-863.	1.0	23
17	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
18	Suppression of photo-darkening effect in Yb-doped silica glass fiber by co-doping of group 2 element. Journal of Non-Crystalline Solids, 2016, 440, 85-89.	3.1	16

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19	Laser oscillation in low photo-darkening Yb-doped silica glass fiber by co-doping of group-2 element. , 2016, , .		1
20	Visible laser oscillation in single-mode Pr-doped double-clad structured waterproof fluoro-aluminate glass fiber. , 2016, , .		1
21	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
22	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. Physical Review E, 2015, 91, 063102.	2.1	23
23	Rare earth doped fiber lasers based on zeolite method. , 2015, , .		0
24	Ion diffusion at the bonding interface of undoped YAG/Yb:YAG composite ceramics. Optical Materials, 2015, 46, 542-547.	3.6	28
25	Design of simple and compact tunable fibre laser. Electronics Letters, 2015, 51, 925-926.	1.0	4
26	Partially deuterated potassium dihydrogen phosphate optimized for ultra-broadband optical parametric amplification. Journal of Applied Physics, 2015, 117, 093103.	2.5	14
27	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
28	Ion-induced gamma-ray detection of fast ions escaping from fusion plasmas. Review of Scientific Instruments, 2014, 85, 11E804.	1.3	1
29	Generation of orange pulse laser in waterproof fluoride glass fibre with graphene thin film. Electronics Letters, 2014, 50, 1470-1472.	1.0	20
30	Short-length fiber laser oscillation in 4-mm Nd-doped silica fiber fabricated by zeolite method. Optics Communications, 2014, 328, 121-123.	2.1	12
31	Conceptual Design of a Sub-Exa-Watts Laser System “GEKKO-EXA” The Review of Laser Engineering, 2014, 42, 179.	0.0	3
32	Visible fiber lasers excited by GaN laser diodes. Progress in Quantum Electronics, 2013, 37, 185-214.	7.0	69
33	New laser techniques for repeatable ultrahigh peak power laser beyond petawatt. , 2013, , .		1
34	Parameter mapping survey on optimized sensitizing effect of Ce/Cr/Nd:YAG material for solar-pumped solid-state lasers. Journal of Luminescence, 2013, 143, 10-13.	3.1	16
35	Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021.	3.5	27
36	Suppression mechanism by Ca additive of photodarkening effect in Yb-doped silica glass fiber. , 2013, , .		1

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37	Suppression of photo-darkening effect by Ca additive in Yb-doped silica glass fibre. Electronics Letters, 2013, 49, 148-149.	1.0	8
38	4K-GM Cryocooler Performance and Thermal Conductivity of HoxEr1-xN. Materials Research Society Symposia Proceedings, 2013, 1492, 53-58.	0.1	3
39	Suppression of photo-darkening by Ca additive in Yb-doped silica fiber. , 2013, , .		0
40	Watt-order direct green laser oscillation at 522nm in Pr <sup>3+</sup> -doped waterproof fluoro-aluminate-glass fiber. , 2013, , .		2
41	Development on advanced functional optical materials and fibers. , 2013, , .		0
42	Planar-core optical fibre laser. Electronics Letters, 2012, 48, 642.	1.0	1
43	Laser demonstration in short length single-mode Nd-doped silica fiber fabricated by zeolite method. , 2012, , .		0
44	Conceptual study on planar-core optical fiber for high power fiber lasers. , 2012, , .		0
45	ErN and HoN spherical regenerator materials for 4K cryocoolers. Applied Physics Letters, 2012, 101, .	3.3	13
46	ePathBrick: A Synthetic Biology Platform for Engineering Metabolic Pathways in <i>E. coli</i> . ACS Synthetic Biology, 2012, 1, 256-266.	3.8	230
47	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. High Energy Density Physics, 2012, 8, 227-230.	1.5	22
48	Fast ignition integrated experiments with Gekko and LFEX lasers. Plasma Physics and Controlled Fusion, 2011, 53, 124029.	2.1	55
49	Optical properties and Faraday effect of ceramic terbium gallium garnet for a room temperature Faraday rotator. Optics Express, 2011, 19, 15181.	3.4	114
50	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
51	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
52	Demonstration of 4-mm short length fiber laser oscillation in Nd-doped silica fiber fabricated by zeolite method. , 2011, , .		0
53	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
54	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

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55	Properties of transparent Ce:YAG ceramic phosphors for white LED. <i>Optical Materials</i> , 2011, 33, 688-691.	3.6	481
56	Optical properties and Faraday effects on terbium gallium garnet ceramics for Faraday rotator. , 2011, , .		0
57	Laser oscillation in 4-cm single-transverse-mode Nd-doped silica fiber fabricated by zeolite method. , 2011, , .		0
58	Bismuth Doped Silica Glass and Fiber. <i>The Review of Laser Engineering</i> , 2010, 38, 869-875.	0.0	3
59	Luminescence Properties of Ce/Cr/Nd:YAG Materials for Solar-Pumped Lasers. <i>The Review of Laser Engineering</i> , 2010, 38, 207-212.	0.0	3
60	Luminescence properties of highly Cr co-doped Nd:YAG powder produced by sol-gel method. <i>Journal of Luminescence</i> , 2010, 130, 455-459.	3.1	36
61	Local Structure of the Infrared Bismuth Luminescent Center in Bismuth-Doped Silica Glass. <i>Journal of the American Ceramic Society</i> , 2010, 93, 581-589.	3.8	79
62	New Infrared Luminescence from Bi-doped Glasses. , 2010, , .		5
63	Yellow laser oscillation in Dy <sup>3+</sup> -doped waterproof fluoro-aluminate glass fibre pumped by 398.8-nm GaN laser diodes. <i>Electronics Letters</i> , 2010, 46, 586.	1.0	64
64	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. <i>Electronics Letters</i> , 2010, 46, 1285.	1.0	31
65	A broadband light source in near infrared region generated by a bismuth-doped silica fiber. , 2009, , .		0
66	Millimeter-wave imaging using photonics-based noise source. , 2009, , .		13
67	Bi-doped glasses for broadband fiber light source. , 2009, , .		0
68	Multi-colour laser oscillation in Pr <sup>3+</sup> -doped fluoro-aluminate glass fibre pumped by 442.6-nm GaN-semiconductor laser. <i>Electronics Letters</i> , 2009, 45, 1301.	1.0	36
69	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. <i>Nuclear Fusion</i> , 2009, 49, 104024.	3.5	45
70	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
71	On the distribution of sociable numbers. <i>Journal of Number Theory</i> , 2009, 129, 1990-2009.	0.4	12
72	Stimulated emission cross sections of Pr doped fluoride glass evaluated by Judd-Ofelt analysis. , 2009, , .		0

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73	Vacuum ultraviolet optical properties of a micro-pulling-down-method grown $\text{Nd}^{3+}:(\text{La}_{0.9}\text{Ba}_{0.1})\text{F}_3$ . Journal of the Optical Society of America B: Optical Physics, 2008, 25, B27.	2.1	18
74	Ultra broadband gain from a Bismuth-doped glass waveguide fabricated using ultrafast laser inscription. , 2008, , .		0
75	Novel Faraday Rotator by Use of Cryogenic TGG Ceramics. The Review of Laser Engineering, 2008, 36, 1306-1309.	0.0	5
76	Implantation of Bi infrared luminescent center in the lithium niobate crystal structure. , 2008, , .		0
77	Optical Properties of Micro-Pulling Down Method Grown $\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_{3-x}$ as Potential Vacuum Ultraviolet Laser Material and Scintillator. The Review of Laser Engineering, 2008, 36, 1303-1305.	0.0	0
78	Development of 50J Class Repetitive Laser Based on Nd-doped Silica Glass. , 2007, , .		0
79	Effect of GeO additive on fluorescence intensity enhancement in bismuth-doped silica glass. , 2007, , .		1
80	Development of 50J class repetitive laser based on Nd-doped silica glass. , 2007, , .		0
81	Effect of GeO <sub>2</sub> additive on fluorescence intensity enhancement in bismuth-doped silica glass. Journal of Materials Research, 2007, 22, 565-568.	2.6	15
82	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_{3-x}$ as vacuum ultraviolet scintillator and new laser material. , 2007, , .		0
83	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_{3-x}$ 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
84	Ultrawideband Light Emission from Bismuth and Erbium Doped Silica. Japanese Journal of Applied Physics, 2007, 46, 1531-1532.	1.5	23
85	40J class laser oscillation of Nd-doped silica glass with high thermal shock parameter. Applied Physics Letters, 2007, 90, 221108.	3.3	21
86	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_{3-x}$ as Vacuum Ultraviolet Scintillator and New Laser Material. , 2007, , .		0
87	Effect of GeO <sub>2</sub> additive on fluorescence intensity enhancement in bismuth-doped silica glass. , 2007, , .		0
88	Development of 50J Class Repetitive Laser Based on Nd-doped Silica Glass. , 2007, , .		0
89	9.6 dB Gain at a 1310 nm Wavelength for a Bismuth-doped Fiber Amplifier. Journal of the Optical Society of Korea, 2007, 11, 63-66.	0.6	17
90	Cryogenic temperature characteristics of Verdet constant on terbium gallium garnet ceramics. Optics Express, 2007, 15, 11255.	3.4	120

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91	10.6 dB gain at a 1310 nm wavelength for a bismuth-doped silica fiber amplifier. , 2007, , .		0
92	Technological Challenge and Activation of High-Energy PW Laser LFEX. , 2007, , .		0
93	Development of 40J Class Repetitive Laser Based on Nd-doped Silica Glass. , 2007, , .		0
94	Nd <sup>3+</sup> :(La <sub>1-x</sub> , Ba <sub>x</sub> )F <sub>3-x</sub> Grown via Micro-PD as New Vacuum Ultraviolet Scintillator and Potential Laser Material. , 2007, , .		0
95	Measurement of Magnet-Optical Property and Thermal Conductivity on TGG Ceramic for Faraday Material of High-Peak and High Average Power Laser. The Review of Laser Engineering, 2007, 35, 806-810.	0.0	20
96	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
97	Bismuth-Doped Silica Glass as a New Laser Material. Journal of the Korean Physical Society, 2007, 51, 364.	0.7	7
98	Development of High-Average-Power Laser Based on Silica Glass. The Review of Laser Engineering, 2007, 35, 657-662.	0.0	0
99	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
100	Optical amplification in a bismuth-doped silica fiber. Proceedings of SPIE, 2006, , .	0.8	4
101	Simultaneous Amplification at Two Wavelengths Near 1300 nm in a 6.5-cm-Long Bismuth-Doped Silica Glass. IEEE Photonics Technology Letters, 2006, 18, 1901-1903.	2.5	19
102	<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
103	Optical amplification in a bismuth-doped silica glass at 1300nm telecommunications window. Optics Communications, 2006, 266, 169-171.	2.1	31
104	10-kJ PW laser for the FIREX-I program. European Physical Journal Special Topics, 2006, 133, 81-87.	0.2	66
105	Laser Oscillation of Nd-Doped Silica Glass with High Thermal Shock Parameter. Japanese Journal of Applied Physics, 2006, 45, 6936-6939.	1.5	14
106	Optical amplification in the 1300nm telecommunications window in a Bi-doped silica fiber. , 2006, , .		0
107	Conceptual design of laser fusion reactor KOYO-fast " Concepts of reactor system and laser driver. European Physical Journal Special Topics, 2006, 133, 837-839.	0.2	1
108	Structural analysis of Bi doped silica glasses by XAFS. , 2005, , .		2

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109	High power amplification of solid-state Nd:YAG laser with short pulses of 300 ps/5 kHz. , 2005, , .		3
110	Development of Nd-doped optical gain material based on silica glass with a high thermal shock parameter for high-average-power laser. , 2005, , .		3
111	Amplification in a bismuth-doped silica glass at second telecommunication windows. , 2005, , .		3
112	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
113	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
114	Report on APLS2004. The Review of Laser Engineering, 2004, 32, 423-425.	0.0	0
115	Development of High Repetition LD-Pumped Solid-State Laser. The Review of Laser Engineering, 2004, 32, 763-768.	0.0	0
116	Optical amplification in bismuth-doped silica glass. Applied Physics Letters, 2003, 82, 3325-3326.	3.3	226
117	Infrared Luminescence from Bismuth-Doped Silica Glass. Japanese Journal of Applied Physics, 2001, 40, L279-L281.	1.5	510
118	Drastic Photoluminescence Quenching of Perylene Derivative Membrane with Phthalocyanine Coating. Chemistry Letters, 2001, 30, 354-355.	1.3	31
119	A fluorescence spectrum at 1.3 $\mu$ m of bismuth-doped silica glass with 0.8 $\mu$ m excitation. , 2001, , .		0
120	Planar shock wave generated by uniform irradiation from two overlapped partially coherent laser beams. Journal of Applied Physics, 2001, 89, 2571-2575.	2.5	19
121	Laser-Induced Shock Compression of Tantalum to 1.7 TPa. Japanese Journal of Applied Physics, 2000, 39, 1815-1816.	1.5	9
122	Femtosecond Time-Resolved Optical Polarigraphy (FTOP) and Its Application. The Review of Laser Engineering, 2000, 28, 147-148,155.	0.0	0
123	Picosecond Pulsed X-Ray Diffraction from a Pulsed Laser Heated Si(111). Japanese Journal of Applied Physics, 1999, 38, 4950-4951.	1.5	8
124	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
125	Spectroscopy of Hard X-Rays (2 $\mu$ keV) Generated by Focusing Femtosecond Laser on Metal Targets. Japanese Journal of Applied Physics, 1999, 38, 6754-6756.	1.5	26
126	New material for high average power laser based on silica glass. Fusion Engineering and Design, 1999, 44, 431-435.	1.9	4

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127	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
128	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
129	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
130	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
131	Spectroscopic properties and quantum yield of Cu-doped SiO <sub>2</sub> glass. Journal of Luminescence, 1997, 75, 213-219.	3.1	54
132	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
133	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
134	New Nd:doped SiO <sub>2</sub> material for high average power laser. AIP Conference Proceedings, 1996, , .	0.4	0
135	Report on CLEO/QELS '96.. The Review of Laser Engineering, 1996, 24, 910-932.	0.0	0
136	New fluorescence from Bi-doped silica glass and its 1.3- $\hat{1}$ / <sub>4</sub> m emission with 0.8- $\hat{1}$ / <sub>4</sub> m excitation for fiber amplifier. , 0, , .		0
137	New fluorescence at 1.3- $\hat{1}$ / <sub>4</sub> m emission with 0.8- $\hat{1}$ / <sub>4</sub> m excitation from Bi-doped silica glass. , 0, , .		0
138	Progress in understanding of laser-produced plasmas for EUV source. , 0, , .		0
139	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
140	Development of New Laser Medium on Dispersed Nano-crystals in Liquid. , 0, , .		0
141	High Power and High Repetition Nd: YAG Laser Pumped by cw Laser Diodes. , 0, , .		0
142	Bismuth-doped Silica Fiber Amplifier. , 0, , .		2