

Seung-Woo Kim

List of Publications by Year in descending order

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156
papers

5,622
citations

109321

35
h-index

79698

73
g-index

160
all docs

160
docs citations

160
times ranked

3956
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-stabilized free-space link for optical frequency transfer. Optics Communications, 2022, 504, 127481.	2.1	4
2	Compensation of laser propagation effects within solids for high harmonic generation of extreme ultraviolet radiation. Optics and Laser Technology, 2022, 145, 107507.	4.6	3
3	Green Flexible Graphene-Inorganic-Hybrid Micro-Supercapacitors Made of Fallen Leaves Enabled by Ultrafast Laser Pulses. Advanced Functional Materials, 2022, 32, .	14.9	46
4	Measurement of sub-fm/Hz ^{1/2} displacement spectral densities in ultrahigh-Q single-crystal microcavities with hertz-level lasers. Photonics Research, 2022, 10, 1202.	7.0	4
5	Fast and precise laser beam scanning by nonperiodic grating on a binary micromirror array. Optical Engineering, 2022, 61, .	1.0	0
6	One-Step Template-Free Laser Patterning of Metal Microhoneycomb Structures. Small Methods, 2022, 6, e2200150.	8.6	3
7	Green Flexible Graphene-Inorganic-Hybrid Micro-Supercapacitors Made of Fallen Leaves Enabled by Ultrafast Laser Pulses (Adv. Funct. Mater. 20/2022). Advanced Functional Materials, 2022, 32, .	14.9	1
8	Plasmonic Color Printing via Bottom-Up Laser-Induced Photomodification Process. ACS Applied Materials & Interfaces, 2022, 14, 30315-30323.	8.0	9
9	Selective Laser Ablation of Metal Thin Films Using Ultrashort Pulses. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 771-782.	4.9	16
10	Injection-seeded high-repetition-rate short-pulse micro-laser based on upconversion nanoparticles. Nanoscale, 2021, 13, 878-885.	5.6	4
11	Non-periodic nanoscale structuring of crystalline silicon surface by using ultrashort laser pulses. Applied Surface Science, 2021, 565, 150595.	6.1	6
12	Lift-Off Ablation of Metal Thin Films for Micropatterning Using Ultrashort Laser Pulses. Metals, 2021, 11, 1586.	2.3	0
13	Simultaneous 3-D Surface Profiling of Multiple Targets by Repetition Rate Scanning of a Single Femtosecond Laser. International Journal of Precision Engineering and Manufacturing, 2020, 21, 211-217.	2.2	3
14	Improved Self-Calibration of a Multilateration System Based on Absolute Distance Measurement. Sensors, 2020, 20, 7288.	3.8	5
15	Photonic Microwave Distance Interferometry Using a Mode-Locked Laser with Systematic Error Correction. Applied Sciences (Switzerland), 2020, 10, 7649.	2.5	9
16	Absolute laser ranging by time-of-flight measurement of ultrashort light pulses [Invited]. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, B27.	1.5	25
17	Extraction of higher-order nonlinear electronic response in solids using high harmonic generation. , 2020, , .		0
18	Diverging cyclic radial shearing interferometry for single-shot wavefront sensing. Applied Optics, 2020, 59, 9067.	1.8	3

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19	Dimensional Metrology Using Mode-Locked Lasers. Precision Manufacturing, 2019, , 1-34.	0.1	0
20	Extraction of higher-order nonlinear electronic response in solids using high harmonic generation. Nature Communications, 2019, 10, 3272.	12.8	33
21	Free-space transfer of comb-rooted optical frequencies over an 18km open-air link. Nature Communications, 2019, 10, 4438.	12.8	39
22	Ultrasensitive Anti-Interference Voice Recognition by Bio-Inspired Skin-Attachable Self-Cleaning Acoustic Sensors. ACS Nano, 2019, 13, 13293-13303.	14.6	122
23	Dimensional Metrology Using Mode-Locked Lasers. Precision Manufacturing, 2019, , 1-33.	0.1	1
24	Direct instantaneous 2-D imaging for photoacoustic waves by ultrashort single pulse interferometry. Optics and Lasers in Engineering, 2019, 121, 340-345.	3.8	6
25	Comb-rooted multi-channel synthesis of ultra-narrow optical frequencies of few Hz linewidth. Scientific Reports, 2019, 9, 7652.	3.3	16
26	Spectral Interference in High Harmonic Generation from Solids. ACS Photonics, 2019, 6, 851-857.	6.6	38
27	Comb segmentation spectroscopy for rapid detection of molecular absorption lines. Optics Express, 2019, 27, 9088.	3.4	3
28	Surface third-harmonic generation at a two-photon-polymerized micro-interferometer for real-time on-chip refractive index monitoring. Optics Express, 2019, 27, 29196.	3.4	4
29	Rigorous single pulse imaging for ultrafast interferometric observation. Optics Express, 2019, 27, 19758.	3.4	7
30	Resonant-Plasmon-Assisted Subwavelength Ablation by a Femtosecond Oscillator. Physical Review Applied, 2018, 9, .	3.8	7
31	Distance Measurements Using Mode-Locked Lasers: A Review. Nanomanufacturing and Metrology, 2018, 1, 131-147.	3.0	57
32	Absolute Distance Meter Operating on a Free-Running Mode-Locked Laser for Space Mission. International Journal of Precision Engineering and Manufacturing, 2018, 19, 975-981.	2.2	15
33	3D profiling of rough silicon carbide surfaces by coherence scanning interferometry using a femtosecond laser. Applied Optics, 2018, 57, 2584.	1.8	9
34	Damage-free cutting of chemically strengthened glass by creation of sub-surface cracks using femtosecond laser pulses. CIRP Annals - Manufacturing Technology, 2017, 66, 535-538.	3.6	13
35	MW peak power Er/Yb-doped fiber femtosecond laser amplifier at 1.5μm center wavelength. Laser Physics Letters, 2017, 14, 080002.	1.4	10
36	High-brightness laser imaging with tunable speckle reduction enabled by electroactive micro-optic diffusers. Scientific Reports, 2017, 7, 15318.	3.3	28

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37	Investigating the origin of third harmonic generation from diabolical optical antennas. Applied Physics Letters, 2017, 111, 173102.	3.3	4
38	Generation of Coherent Extreme-Ultraviolet Radiation from Bulk Sapphire Crystal. ACS Photonics, 2017, 4, 1627-1632.	6.6	52
39	Compensation of the refractive index of air in laser interferometer for distance measurement: A review. International Journal of Precision Engineering and Manufacturing, 2017, 18, 1881-1890.	2.2	48
40	Large-aperture ground glass surface profile measurement using coherence scanning interferometry. Optics Express, 2017, 25, 1106.	3.4	9
41	Tuning range extension of pulse repetition rate using chirped fiber Bragg gratings. Optics Express, 2017, 25, 1413.	3.4	3
42	Nonlinear third harmonic generation at crystalline sapphires. Optics Express, 2017, 25, 26002.	3.4	21
43	Self-optimization of plasmonic nanoantennas in strong femtosecond fields. Optica, 2017, 4, 1038.	9.3	25
44	Coherent extreme ultraviolet pulse generation using metal-sapphire nanostructures. , 2017, , .		0
45	Inter-comb synchronization by mode-to-mode locking. Laser Physics Letters, 2016, 13, 085301.	1.4	3
46	Comb-referenced laser distance interferometer for industrial nanotechnology. Scientific Reports, 2016, 6, 31770.	3.3	45
47	Optical inspection of smartphone camera modules by near-infrared low-coherence interferometry. Optical Engineering, 2016, 55, 091404.	1.0	2
48	High-harmonic generation by field enhanced femtosecond pulses in metal-sapphire nanostructure. Nature Communications, 2016, 7, 13105.	12.8	145
49	Stabilization of two frequency combs with a small relative f_{ceo} jitter using diode laser injection locking. Proceedings of SPIE, 2016, , .	0.8	0
50	Parallel determination of absolute distances to multiple targets by time-of-flight measurement using femtosecond light pulses. Optics Express, 2015, 23, 25874.	3.4	44
51	Fourier-transform spectroscopy using an Er-doped fiber femtosecond laser by sweeping the pulse repetition rate. Scientific Reports, 2015, 5, 15726.	3.3	25
52	Polarization maintaining linear cavity Er-doped fiber femtosecond laser. Laser Physics Letters, 2015, 12, 105102.	1.4	15
53	Precision 3D surface measurement of step-structures using mode-locked femtosecond pulses. Proceedings of SPIE, 2015, , .	0.8	0
54	Absolute distance measurement using frequency-comb-referenced four-wavelength interferometry. Proceedings of SPIE, 2015, , .	0.8	0

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55	Real-time compensation of the refractive index of air in distance measurement. Optics Express, 2015, 23, 26377.	3.4	29
56	High-precision 3-D surface measurement of step-structures using femtosecond lasers. , 2015, , .		0
57	High-precision space LIDARs based on femtosecond lasers. , 2015, , .		0
58	Absolute positioning by multi-wavelength interferometry referenced to the frequency comb of a femtosecond laser. Optics Express, 2015, 23, 9121.	3.4	62
59	Repetition rate multiplication of femtosecond light pulses using a phase-locked all-pass fiber resonator. Optics Express, 2015, 23, 10117.	3.4	17
60	Recent advances in absolute distance measurements using femtosecond light pulses. Proceedings of SPIE, 2015, , .	0.8	0
61	EUV generation by plasmonic field enhancement using nanostructures. Proceedings of SPIE, 2015, , .	0.8	0
62	Advanced Optical Distance Measurements using Femtosecond Laser Pulses. , 2015, , .		1
63	Observation of strongly enhanced ultrashort pulses in 3-D metallic funnel-waveguide. Optics Express, 2014, 22, 17360.	3.4	0
64	Time-domain stabilization of carrier-envelope phase in femtosecond light pulses. Optics Express, 2014, 22, 11788.	3.4	12
65	Absolute distance measurement with extension of nonambiguity range using the frequency comb of a femtosecond laser. Optical Engineering, 2014, 53, 122403.	1.0	36
66	Hybrid femtosecond fiber laser outcrossing Er-doped fiber and Yb-doped fiber. Laser Physics Letters, 2014, 11, 075102.	1.4	0
67	Space radiation test of saturable absorber for femtosecond laser. Optics Letters, 2014, 39, 2831.	3.3	12
68	Coherent supercontinuum generation using Er-doped fiber laser of hybrid mode-locking. Optics Letters, 2014, 39, 2986.	3.3	19
69	Testing of a femtosecond pulse laser in outer space. Scientific Reports, 2014, 4, 5134.	3.3	66
70	Wide repetition rate tunable femtosecond laser with a pair of CFBGs. , 2014, , .		1
71	Femtosecond pulses for 3-D surface measurement of microelectronic step-structures. , 2014, , .		2
72	Frequency-comb-referenced stable multi-channel fiber laser. , 2014, , .		0

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73	Absolute distance measurement by dual-comb interferometry with adjustable synthetic wavelength. Measurement Science and Technology, 2013, 24, 045201.	2.6	91
74	Generation of EUV radiation by plasmonic field enhancement using nano-structured bowties and funnel-waveguides. Annalen Der Physik, 2013, 525, 87-96.	2.4	36
75	Precision surface profile measurements by comb-based multi-wavelength interferometry. , 2013, , .		1
76	Space radiation effects on a semiconductor saturable absorber. , 2013, , .		0
77	Phase shifting interferometry for large-sized surface measurements by sweeping the repetition rate of femtosecond light pulses. International Journal of Precision Engineering and Manufacturing, 2013, 14, 241-246.	2.2	13
78	Ultra-precision LIDAR System using Femtosecond Light Pulses. , 2013, , .		0
79	Frequency-comb-referenced multi-wavelength profilometry for largely stepped surfaces. Optics Express, 2013, 21, 9780.	3.4	27
80	Frequency-comb-referenced multi-channel fiber laser for DWDM communication. Optics Express, 2013, 21, 29179.	3.4	17
81	Femtosecond laser pulses for fast 3-D surface profilometry of microelectronic step-structures. Optics Express, 2013, 21, 15323.	3.4	34
82	Real-time monitoring and control system for femtosecond pulse lasers. , 2013, , .		0
83	Development of fiber femtosecond lasers for advanced metrological space missions. , 2013, , .		0
84	Hybrid mode-locked Er-doped fiber femtosecond oscillator with 156 mW output power. Optics Express, 2012, 20, 15054.	3.4	46
85	Nanoplasmonic generation of ultrashort EUV pulses. Proceedings of SPIE, 2012, , .	0.8	0
86	High precision laser ranging by time-of-flight measurement of femtosecond pulses. Measurement Science and Technology, 2012, 23, 065203.	2.6	45
87	Kim et al. reply. Nature, 2012, 485, E2-E3.	27.8	75
88	Generation of isolated attosecond pulses using a plasmonic funnel-waveguide. New Journal of Physics, 2012, 14, 103038.	2.9	20
89	Theoretical Considerations on Combined Optical Distance Measurements Using a Femtosecond Pulse Laser. Journal of the Optical Society of Korea, 2012, 16, 396-400.	0.6	3
90	Active compensation of large dispersion of femtosecond pulses for precision laser ranging. Optics Express, 2011, 19, 4002.	3.4	12

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91	Plasmonic field enhancement for generating ultrashort extreme-ultraviolet light pulses. , 2011, , .		3
92	Plasmonic generation of ultrashort extreme-ultraviolet light pulses. Nature Photonics, 2011, 5, 677-681.	31.4	286
93	Active autofocus control using source dithering technique based on fibre-optic confocal principle. International Journal of Precision Engineering and Manufacturing, 2011, 12, 733-736.	2.2	4
94	High precision surface-profile metrology by scanning the repetition rate of femtosecond pulses. Proceedings of SPIE, 2011, , .	0.8	0
95	Time-of-flight Measurement using Femtosecond Pulses. , 2011, , .		0
96	Estimation method for errors of an aerostatic planar XY stage based on measured profiles errors. International Journal of Advanced Manufacturing Technology, 2010, 46, 877-883.	3.0	28
97	Time-of-flight measurement with femtosecond light pulses. Nature Photonics, 2010, 4, 716-720.	31.4	366
98	Fiber-based frequency comb with mHz relative linewidth carrier-envelope-offset frequency. , 2010, , .		0
99	High harmonic generation by guided surface plasmon polaritons. Proceedings of SPIE, 2010, , .	0.8	3
100	Spectrally resolved phase-shifting interference microscopy: technique based on optical coherence tomography for profiling a transparent film on a patterned substrate. Applied Optics, 2010, 49, 6624.	2.1	12
101	Vibration-desensitized interferometer by continuous phase shifting with high-speed fringe capturing. Optics Letters, 2010, 35, 19.	3.3	28
102	High Harmonic Generation by Resonant Plasmon Field Enhancement. , 2010, , .		1
103	Er-doped fiber comb with enhanced fceo S/N ratio using Tm:Ho-doped fiber. , 2010, , .		0
104	All-fiber single optical frequency generation from an Er-doped fiber frequency comb. , 2010, , .		0
105	Long-term reliable phase-locked seed source for Yb-fiber-based chirped pulse amplification. , 2010, , .		0
106	High harmonic generation by plasmonic enhancement of femtosecond laser pulses. , 2009, , .		0
107	Metrological atomic force microscopy integrated with a modified two-point diffraction interferometer. Measurement Science and Technology, 2009, 20, 105302.	2.6	7
108	Absolute length measurement with the frequency comb of a femtosecond laser. Measurement Science and Technology, 2009, 20, 095302.	2.6	80

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109	High harmonics generation by plasmonic field enhancement. Proceedings of SPIE, 2009, , .	0.8	0
110	Determination of film thickness and surface profile using reflectometry and spectrally resolved phase shifting interferometry. International Journal of Precision Engineering and Manufacturing, 2009, 10, 5-10.	2.2	23
111	Combs rule. Nature Photonics, 2009, 3, 313-314.	31.4	128
112	All-fiber-based optical frequency generation from an Er-doped fiber femtosecond laser. Optics Express, 2009, 17, 10939.	3.4	24
113	Er-doped fiber frequency comb with mHz relative linewidth. Optics Express, 2009, 17, 11972.	3.4	37
114	Er-doped fiber comb with enhanced f_{ceo} S/N ratio using Tm:Ho-doped fiber. Optics Express, 2009, 17, 18606.	3.4	19
115	Spectrally resolved white-light interferometry for 3D inspection of a thin-film layer structure. Applied Optics, 2009, 48, 799.	2.1	35
116	Multi-wavelength interferometry based on the frequency comb of a femtosecond laser. , 2009, , .		0
117	Continuous scanning phase measurement for high immunity to vibration. Proceedings of SPIE, 2009, , .	0.8	0
118	Design of nanostructures for high harmonic generation by localized surface plasmon resonance. , 2009, , .		0
119	High order harmonic generation with enhanced near-field by localized surface plasmon. , 2009, , .		0
120	High harmonic generation by surface plasmon resonance. , 2009, , .		0
121	High-harmonic generation by resonant plasmon field enhancement. Nature, 2008, 453, 757-760.	27.8	1,283
122	A wide-range optical frequency generator based on the frequency comb of a femtosecond laser. Optics Express, 2008, 16, 258.	3.4	37
123	Distance measurements by combined method based on a femtosecond pulse laser. Optics Express, 2008, 16, 19799.	3.4	105
124	Advanced length metrology exploiting the frequency comb of a femtosecond laser. , 2008, , .		0
125	Advanced Optical Metrology Using Ultrashort Pulse Lasers. The Review of Laser Engineering, 2008, 36, 1254-1257.	0.0	6
126	Precision Length Metrology based on Optical Frequency Synthesizer. , 2007, , .		0

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127	Fast, precise, tomographic measurements of thin films. Applied Physics Letters, 2007, 91, 091903.	3.3	37
128	Dispersive white light interferometry for 3D inspection of thin film layers of flat panel displays. , 2007, , .		1
129	Simultaneous measurements of thin-film thickness and refractive index by dispersive white-light interferometry. , 2007, , .		2
130	Refractive index measurement by spectrally resolved interferometry using a femtosecond pulse laser. Optics Letters, 2007, 32, 647.	3.3	45
131	A three-probe system for measuring the parallelism and straightness of a pair of rails for ultra-precision guideways. International Journal of Machine Tools and Manufacture, 2007, 47, 1053-1058.	13.4	65
132	Absolute distance measurement by dispersive interferometry using a femtosecond pulse laser. Optics Express, 2006, 14, 5954.	3.4	254
133	Absolute distance measurement by lateral shearing interferometry of point-diffracted spherical waves. Optics Express, 2006, 14, 5961.	3.4	17
134	Absolute length calibration of gauge blocks using optical comb of a femtosecond pulse laser. Optics Express, 2006, 14, 5968.	3.4	110
135	Thin-film thickness profile and its refractive index measurements by dispersive white-light interferometry. Optics Express, 2006, 14, 11885.	3.4	86
136	A point-diffraction interferometer with vibration-desensitizing capability. , 2006, , .		1
137	Absolute distance measurements using point-diffracted spherical waves. , 2006, 6293, 209.		1
138	Estimation and correction method for the two-dimensional position errors of a planar XY stage based on motion error measurements. International Journal of Machine Tools and Manufacture, 2006, 46, 801-810.	13.4	11
139	Measuring and compensating for 5-DOF parasitic motion errors in translation stages using Twymanâ€™Green interferometry. International Journal of Machine Tools and Manufacture, 2006, 46, 1748-1752.	13.4	5
140	Low-coherence interferometry for 3D measurements of microelectronics packaging and integration. , 2005, , .		0
141	Point-diffraction fiber interferometer for vibration desensitization. , 2005, , .		0
142	Fiber-diffraction interferometer for vibration desensitization. Optics Letters, 2005, 30, 2059.	3.3	26
143	Femtosecond laser pulses for surface-profile metrology. Optics Letters, 2005, 30, 2650.	3.3	60
144	Nonparaxial free-space diffraction from oblique end faces of single-mode optical fibers. Optics Letters, 2004, 29, 2366.	3.3	14

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145	Volumetric phase-measuring interferometer for three-dimensional coordinate metrology. Precision Engineering, 2003, 27, 205-215.	3.4	32
146	Polarization-sensitive optical coherence tomography for photoelasticity testing of glass/epoxy composites. Optics Express, 2003, 11, 1669.	3.4	46
147	Absolute distance measurement by two-point-diffraction interferometry. Applied Optics, 2002, 41, 5921.	2.1	29
148	Compensation of phase change on reflection in white-light interferometry for step height measurement. Optics Letters, 2001, 26, 420.	3.3	34
149	New Design of Precision CMM based upon Volumetric Phase-Measuring Interferometry. CIRP Annals - Manufacturing Technology, 2001, 50, 357-360.	3.6	19
150	Thickness-profile measurement of transparent thin-film layers by white-light scanning interferometry. Applied Optics, 1999, 38, 5968.	2.1	223
151	Monte Carlo simulation of charging effects on linewidth metrology. Scanning, 1998, 20, 447-455.	1.5	18
152	Rapid pattern inspection of shadow masks by machine vision integrated with Fourier optics. Optical Engineering, 1997, 36, 3309.	1.0	6
153	Accelerated phase-measuring algorithm of least squares for phase-shifting interferometry. Optical Engineering, 1997, 36, 3101.	1.0	27
154	An ultraprecision stage for alignment of wafers in advanced microlithography. Precision Engineering, 1997, 21, 113-122.	3.4	146
155	Real-time correction of movement errors of a machine axis by multiple null-balancing using Twyman-Green interferometry. International Journal of Machine Tools and Manufacture, 1995, 35, 477-486.	13.4	2
156	Improvement of scanning accuracy of PZT piezoelectric actuators by feed-forward model-reference control. Precision Engineering, 1994, 16, 49-55.	3.4	118