

# Seung-Woo Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

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	High-harmonic generation by resonant plasmon field enhancement. Nature, 2008, 453, 757-760.	27.8	1,283
2	Time-of-flight measurement with femtosecond light pulses. Nature Photonics, 2010, 4, 716-720.	31.4	366
3	Plasmonic generation of ultrashort extreme-ultraviolet light pulses. Nature Photonics, 2011, 5, 677-681.	31.4	286
4	Absolute distance measurement by dispersive interferometry using a femtosecond pulse laser. Optics Express, 2006, 14, 5954.	3.4	254
5	Thickness-profile measurement of transparent thin-film layers by white-light scanning interferometry. Applied Optics, 1999, 38, 5968.	2.1	223
6	An ultraprecision stage for alignment of wafers in advanced microlithography. Precision Engineering, 1997, 21, 113-122.	3.4	146
7	High-harmonic generation by field enhanced femtosecond pulses in metal-sapphire nanostructure. Nature Communications, 2016, 7, 13105.	12.8	145
8	Combs rule. Nature Photonics, 2009, 3, 313-314.	31.4	128
9	Ultrasensitive Anti-Interference Voice Recognition by Bio-Inspired Skin-Attachable Self-Cleaning Acoustic Sensors. ACS Nano, 2019, 13, 13293-13303.	14.6	122
10	Improvement of scanning accuracy of PZT piezoelectric actuators by feed-forward model-reference control. Precision Engineering, 1994, 16, 49-55.	3.4	118
11	Absolute length calibration of gauge blocks using optical comb of a femtosecond pulse laser. Optics Express, 2006, 14, 5968.	3.4	110
12	Distance measurements by combined method based on a femtosecond pulse laser. Optics Express, 2008, 16, 19799.	3.4	105
13	Absolute distance measurement by dual-comb interferometry with adjustable synthetic wavelength. Measurement Science and Technology, 2013, 24, 045201.	2.6	91
14	Thin-film thickness profile and its refractive index measurements by dispersive white-light interferometry. Optics Express, 2006, 14, 11885.	3.4	86
15	Absolute length measurement with the frequency comb of a femtosecond laser. Measurement Science and Technology, 2009, 20, 095302.	2.6	80
16	Kim et al. reply. Nature, 2012, 485, E2-E3.	27.8	75
17	Testing of a femtosecond pulse laser in outer space. Scientific Reports, 2014, 4, 5134.	3.3	66
18	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

#	ARTICLE	IF	CITATIONS
19	Absolute positioning by multi-wavelength interferometry referenced to the frequency comb of a femtosecond laser. <i>Optics Express</i> , 2015, 23, 9121.	3.4	62
20	Femtosecond laser pulses for surface-profile metrology. <i>Optics Letters</i> , 2005, 30, 2650.	3.3	60
21	Distance Measurements Using Mode-Locked Lasers: A Review. <i>Nanomanufacturing and Metrology</i> , 2018, 1, 131-147.	3.0	57
22	Generation of Coherent Extreme-Ultraviolet Radiation from Bulk Sapphire Crystal. <i>ACS Photonics</i> , 2017, 4, 1627-1632.	6.6	52
23	Compensation of the refractive index of air in laser interferometer for distance measurement: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 1881-1890.	2.2	48
24	Polarization-sensitive optical coherence tomography for photoelasticity testing of glass/epoxy composites. <i>Optics Express</i> , 2003, 11, 1669.	3.4	46
25	Hybrid mode-locked Er-doped fiber femtosecond oscillator with 156 mW output power. <i>Optics Express</i> , 2012, 20, 15054.	3.4	46
26	Green Flexible Graphene-Inorganic-Hybrid Micro-Supercapacitors Made of Fallen Leaves Enabled by Ultrafast Laser Pulses. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	46
27	Refractive index measurement by spectrally resolved interferometry using a femtosecond pulse laser. <i>Optics Letters</i> , 2007, 32, 647.	3.3	45
28	High precision laser ranging by time-of-flight measurement of femtosecond pulses. <i>Measurement Science and Technology</i> , 2012, 23, 065203.	2.6	45
29	Comb-referenced laser distance interferometer for industrial nanotechnology. <i>Scientific Reports</i> , 2016, 6, 31770.	3.3	45
30	Parallel determination of absolute distances to multiple targets by time-of-flight measurement using femtosecond light pulses. <i>Optics Express</i> , 2015, 23, 25874.	3.4	44
31	Free-space transfer of comb-rooted optical frequencies over an 18%km open-air link. <i>Nature Communications</i> , 2019, 10, 4438.	12.8	39
32	Spectral Interference in High Harmonic Generation from Solids. <i>ACS Photonics</i> , 2019, 6, 851-857.	6.6	38
33	Fast, precise, tomographic measurements of thin films. <i>Applied Physics Letters</i> , 2007, 91, 091903.	3.3	37
34	A wide-range optical frequency generator based on the frequency comb of a femtosecond laser. <i>Optics Express</i> , 2008, 16, 258.	3.4	37
35	Er-doped fiber frequency comb with mHz relative linewidth. <i>Optics Express</i> , 2009, 17, 11972.	3.4	37
36	Generation of EUV radiation by plasmonic field enhancement using nano-structured bowties and funnel-waveguides. <i>Annalen Der Physik</i> , 2013, 525, 87-96.	2.4	36

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37	Absolute distance measurement with extension of nonambiguity range using the frequency comb of a femtosecond laser. <i>Optical Engineering</i> , 2014, 53, 122403.	1.0	36
38	Spectrally resolved white-light interferometry for 3D inspection of a thin-film layer structure. <i>Applied Optics</i> , 2009, 48, 799.	2.1	35
39	Compensation of phase change on reflection in white-light interferometry for step height measurement. <i>Optics Letters</i> , 2001, 26, 420.	3.3	34
40	Femtosecond laser pulses for fast 3-D surface profilometry of microelectronic step-structures. <i>Optics Express</i> , 2013, 21, 15323.	3.4	34
41	Extraction of higher-order nonlinear electronic response in solids using high harmonic generation. <i>Nature Communications</i> , 2019, 10, 3272.	12.8	33
42	Volumetric phase-measuring interferometer for three-dimensional coordinate metrology. <i>Precision Engineering</i> , 2003, 27, 205-215.	3.4	32
43	Absolute distance measurement by two-point-diffraction interferometry. <i>Applied Optics</i> , 2002, 41, 5921.	2.1	29
44	Real-time compensation of the refractive index of air in distance measurement. <i>Optics Express</i> , 2015, 23, 26377.	3.4	29
45	Estimation method for errors of an aerostatic planar XY stage based on measured profiles errors. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 46, 877-883.	3.0	28
46	Vibration-desensitized interferometer by continuous phase shifting with high-speed fringe capturing. <i>Optics Letters</i> , 2010, 35, 19.	3.3	28
47	High-brightness laser imaging with tunable speckle reduction enabled by electroactive micro-optic diffusers. <i>Scientific Reports</i> , 2017, 7, 15318.	3.3	28
48	Accelerated phase-measuring algorithm of least squares for phase-shifting interferometry. <i>Optical Engineering</i> , 1997, 36, 3101.	1.0	27
49	Frequency-comb-referenced multi-wavelength profilometry for largely stepped surfaces. <i>Optics Express</i> , 2013, 21, 9780.	3.4	27
50	Fiber-diffraction interferometer for vibration desensitization. <i>Optics Letters</i> , 2005, 30, 2059.	3.3	26
51	Fourier-transform spectroscopy using an Er-doped fiber femtosecond laser by sweeping the pulse repetition rate. <i>Scientific Reports</i> , 2015, 5, 15726.	3.3	25
52	Self-optimization of plasmonic nanoantennas in strong femtosecond fields. <i>Optica</i> , 2017, 4, 1038.	9.3	25
53	Absolute laser ranging by time-of-flight measurement of ultrashort light pulses [Invited]. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, B27.	1.5	25
54	All-fiber-based optical frequency generation from an Er-doped fiber femtosecond laser. <i>Optics Express</i> , 2009, 17, 10939.	3.4	24

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55	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
56	Nonlinear third harmonic generation at crystalline sapphires. Optics Express, 2017, 25, 26002.	3.4	21
57	Generation of isolated attosecond pulses using a plasmonic funnel-waveguide. New Journal of Physics, 2012, 14, 103038.	2.9	20
58	New Design of Precision CMM based upon Volumetric Phase-Measuring Interferometry. CIRP Annals - Manufacturing Technology, 2001, 50, 357-360.	3.6	19
59	Er-doped fiber comb with enhanced $f_{ceo}$ S/N ratio using Tm:Ho-doped fiber. Optics Express, 2009, 17, 18606.	3.4	19
60	Coherent supercontinuum generation using Er-doped fiber laser of hybrid mode-locking. Optics Letters, 2014, 39, 2986.	3.3	19
61	Monte Carlo simulation of charging effects on linewidth metrology. Scanning, 1998, 20, 447-455.	1.5	18
62	Absolute distance measurement by lateral shearing interferometry of point-diffracted spherical waves. Optics Express, 2006, 14, 5961.	3.4	17
63	Frequency-comb-referenced multi-channel fiber laser for DWDM communication. Optics Express, 2013, 21, 29179.	3.4	17
64	Repetition rate multiplication of femtosecond light pulses using a phase-locked all-pass fiber resonator. Optics Express, 2015, 23, 10117.	3.4	17
65	Comb-rooted multi-channel synthesis of ultra-narrow optical frequencies of few Hz linewidth. Scientific Reports, 2019, 9, 7652.	3.3	16
66	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
67	Polarization maintaining linear cavity Er-doped fiber femtosecond laser. Laser Physics Letters, 2015, 12, 105102.	1.4	15
68	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
69	Nonparaxial free-space diffraction from oblique end faces of single-mode optical fibers. Optics Letters, 2004, 29, 2366.	3.3	14
70	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
71	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
72	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

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73	Active compensation of large dispersion of femtosecond pulses for precision laser ranging. Optics Express, 2011, 19, 4002.	3.4	12
74	Time-domain stabilization of carrier-envelope phase in femtosecond light pulses. Optics Express, 2014, 22, 11788.	3.4	12
75	Space radiation test of saturable absorber for femtosecond laser. Optics Letters, 2014, 39, 2831.	3.3	12
76	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
77	MW peak power Er/Yb-doped fiber femtosecond laser amplifier at 1.5 $\mu$ m center wavelength. Laser Physics Letters, 2017, 14, 080002.	1.4	10
78	Large-aperture ground glass surface profile measurement using coherence scanning interferometry. Optics Express, 2017, 25, 1106.	3.4	9
79	3D profiling of rough silicon carbide surfaces by coherence scanning interferometry using a femtosecond laser. Applied Optics, 2018, 57, 2584.	1.8	9
80	Photonic Microwave Distance Interferometry Using a Mode-Locked Laser with Systematic Error Correction. Applied Sciences (Switzerland), 2020, 10, 7649.	2.5	9
81	Plasmonic Color Printing via Bottom-Up Laser-Induced Photomodification Process. ACS Applied Materials & Interfaces, 2022, 14, 30315-30323.	8.0	9
82	Metrological atomic force microscopy integrated with a modified two-point diffraction interferometer. Measurement Science and Technology, 2009, 20, 105302.	2.6	7
83	Resonant-Plasmon-Assisted Subwavelength Ablation by a Femtosecond Oscillator. Physical Review Applied, 2018, 9, .	3.8	7
84	Rigorous single pulse imaging for ultrafast interferometric observation. Optics Express, 2019, 27, 19758.	3.4	7
85	Rapid pattern inspection of shadow masks by machine vision integrated with Fourier optics. Optical Engineering, 1997, 36, 3309.	1.0	6
86	Advanced Optical Metrology Using Ultrashort Pulse Lasers. The Review of Laser Engineering, 2008, 36, 1254-1257.	0.0	6
87	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
88	Non-periodic nanoscale structuring of crystalline silicon surface by using ultrashort laser pulses. Applied Surface Science, 2021, 565, 150595.	6.1	6
89	Measuring and compensating for 5-DOF parasitic motion errors in translation stages using Twyman-Green interferometry. International Journal of Machine Tools and Manufacture, 2006, 46, 1748-1752.	13.4	5
90	Improved Self-Calibration of a Multilateration System Based on Absolute Distance Measurement. Sensors, 2020, 20, 7288.	3.8	5

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91	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
92	Investigating the origin of third harmonic generation from diabolical optical antennas. Applied Physics Letters, 2017, 111, 173102.	3.3	4
93	Injection-seeded high-repetition-rate short-pulse micro-laser based on upconversion nanoparticles. Nanoscale, 2021, 13, 878-885.	5.6	4
94	Phase-stabilized free-space link for optical frequency transfer. Optics Communications, 2022, 504, 127481.	2.1	4
95	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
96	Measurement of sub-fm/Hz <sup>1/2</sup> displacement spectral densities in ultrahigh-Q single-crystal microcavities with hertz-level lasers. Photonics Research, 2022, 10, 1202.	7.0	4
97	High harmonic generation by guided surface plasmon polaritons. Proceedings of SPIE, 2010, , .	0.8	3
98	Plasmonic field enhancement for generating ultrashort extreme-ultraviolet light pulses. , 2011, , .		3
99	Inter-comb synchronization by mode-to-mode locking. Laser Physics Letters, 2016, 13, 085301.	1.4	3
100	Tuning range extension of pulse repetition rate using chirped fiber Bragg gratings. Optics Express, 2017, 25, 1413.	3.4	3
101	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
102	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
103	Comb segmentation spectroscopy for rapid detection of molecular absorption lines. Optics Express, 2019, 27, 9088.	3.4	3
104	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
105	Diverging cyclic radial shearing interferometry for single-shot wavefront sensing. Applied Optics, 2020, 59, 9067.	1.8	3
106	One-Step Template-Free Laser Patterning of Metal Microhoneycomb Structures. Small Methods, 2022, 6, e2200150.	8.6	3
107	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
108	Simultaneous measurements of thin-film thickness and refractive index by dispersive white-light interferometry. , 2007, , .		2

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109	Optical inspection of smartphone camera modules by near-infrared low-coherence interferometry. <i>Optical Engineering</i> , 2016, 55, 091404.	1.0	2
110	Femtosecond pulses for 3-D surface measurement of microelectronic step-structures. , 2014, , .		2
111	A point-diffraction interferometer with vibration-desensitizing capability. , 2006, , .		1
112	Absolute distance measurements using point-diffracted spherical waves. , 2006, 6293, 209.		1
113	Dispersive white light interferometry for 3D inspection of thin film layers of flat panel displays. , 2007, , .		1
114	Precision surface profile measurements by comb-based multi-wavelength interferometry. , 2013, , .		1
115	Dimensional Metrology Using Mode-Locked Lasers. <i>Precision Manufacturing</i> , 2019, , 1-33.	0.1	1
116	High Harmonic Generation by Resonant Plasmon Field Enhancement. , 2010, , .		1
117	Wide repetition rate tunable femtosecond laser with a pair of CFBGs. , 2014, , .		1
118	Advanced Optical Distance Measurements using Femtosecond Laser Pulses. , 2015, , .		1
119	Green Flexible Grapheneâ€“Inorganicâ€“Hybrid Microâ€“Supercapacitors Made of Fallen Leaves Enabled by Ultrafast Laser Pulses ( <i>Adv. Funct. Mater.</i> 20/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	1
120	Low-coherence interferometry for 3D measurements of microelectronics packaging and integration. , 2005, , .		0
121	Point-diffraction fiber interferometer for vibration desensitization. , 2005, , .		0
122	Precision Length Metrology based on Optical Frequency Synthesizer. , 2007, , .		0
123	Advanced length metrology exploiting the frequency comb of a femtosecond laser. , 2008, , .		0
124	High harmonic generation by plasmonic enhancement of femtosecond laser pulses. , 2009, , .		0
125	High harmonics generation by plasmonic field enhancement. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
126	Multi-wavelength interferometry based on the frequency comb of a femtosecond laser. , 2009, , .		0



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127	Continuous scanning phase measurement for high immunity to vibration. Proceedings of SPIE, 2009, , .	0.8	0
128	Design of nanostructures for high harmonic generation by localized surface plasmon resonance. , 2009, , .		0
129	Fiber-based frequency comb with mHz relative linewidth carrier-envelope-offset frequency. , 2010, , .		0
130	High precision surface-profile metrology by scanning the repetition rate of femtosecond pulses. Proceedings of SPIE, 2011, , .	0.8	0
131	Nanoplasmonic generation of ultrashort EUV pulses. Proceedings of SPIE, 2012, , .	0.8	0
132	Space radiation effects on a semiconductor saturable absorber. , 2013, , .		0
133	Ultra-precision LIDAR System using Femtosecond Light Pulses. , 2013, , .		0
134	Real-time monitoring and control system for femtosecond pulse lasers. , 2013, , .		0
135	Development of fiber femtosecond lasers for advanced metrological space missions. , 2013, , .		0
136	Observation of strongly enhanced ultrashort pulses in 3-D metallic funnel-waveguide. Optics Express, 2014, 22, 17360.	3.4	0
137	Hybrid femtosecond fiber laser outcrossing Er-doped fiber and Yb-doped fiber. Laser Physics Letters, 2014, 11, 075102.	1.4	0
138	Precision 3D surface measurement of step-structures using mode-locked femtosecond pulses. Proceedings of SPIE, 2015, , .	0.8	0
139	Absolute distance measurement using frequency-comb-referenced four-wavelength interferometry. Proceedings of SPIE, 2015, , .	0.8	0
140	High-precision 3-D surface measurement of step-structures using femtosecond lasers. , 2015, , .		0
141	High-precision space LIDARs based on femtosecond lasers. , 2015, , .		0
142	Recent advances in absolute distance measurements using femtosecond light pulses. Proceedings of SPIE, 2015, , .	0.8	0
143	EUV generation by plasmonic field enhancement using nanostructures. Proceedings of SPIE, 2015, , .	0.8	0
144	Stabilization of two frequency combs with a small relative $f_{ceo}$ jitter using diode laser injection locking. Proceedings of SPIE, 2016, , .	0.8	0

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145	Dimensional Metrology Using Mode-Locked Lasers. Precision Manufacturing, 2019, , 1-34.	0.1	0
146	Lift-Off Ablation of Metal Thin Films for Micropatterning Using Ultrashort Laser Pulses. Metals, 2021, 11, 1586.	2.3	0
147	High order harmonic generation with enhanced near-field by localized surface plasmon. , 2009, , .		0
148	High harmonic generation by surface plasmon resonance. , 2009, , .		0
149	Er-doped fiber comb with enhanced fceo S/N ratio using Tm:Ho-doped fiber. , 2010, , .		0
150	All-fiber single optical frequency generation from an Er-doped fiber frequency comb. , 2010, , .		0
151	Long-term reliable phase-locked seed source for Yb-fiber-based chirped pulse amplification. , 2010, , .		0
152	Time-of-flight Measurement using Femtosecond Pulses. , 2011, , .		0
153	Frequency-comb-referenced stable multi-channel fiber laser. , 2014, , .		0
154	Coherent extreme ultraviolet pulse generation using metal-sapphire nanostructures. , 2017, , .		0
155	Extraction of higher-order nonlinear electronic response in solids using high harmonic generation. , 2020, , .		0
156	Fast and precise laser beam scanning by nonperiodic grating on a binary micromirror array. Optical Engineering, 2022, 61, .	1.0	0