

Joseph Nilsen

List of Publications by Year in descending order

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150
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3,140
citations

159585

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g-index

150
all docs

150
docs citations

150
times ranked

1213
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of ablaters for the polar direct drive exploding pusher platform. High Energy Density Physics, 2021, 38, 100928.	1.5	2
2	Simultaneous compression and opacity data from time-series radiography with a Lagrangian marker. Review of Scientific Instruments, 2021, 92, 063514.	1.3	2
3	Using neutrons and x rays to measure plasma conditions in a solid sphere of deuterated polyethylene compressed to densities of 35 g/cc at temperatures of 2 keV and pressures of 40 Gbar. Physics of Plasmas, 2021, 28, .	1.9	1
4	Using distributions to understand neutron and x-ray production in ICF ignition capsules and other high energy density plasmas. Review of Scientific Instruments, 2021, 92, 123511.	1.3	0
5	Understanding the effects of radiative preheat and self-emission from shock heating on equation of state measurement at 100s of Mbar using spherically converging shock waves in a NIF hohlraum. Matter and Radiation at Extremes, 2020, 5, .	3.9	29
6	A measurement of the equation of state of carbon envelopes of white dwarfs. Nature, 2020, 584, 51-54.	27.8	70
7	Average-atom calculations of bound-free and free-free cross sections in dense plasmas. Physical Review E, 2020, 102, 043209.	2.1	4
8	Benchmarking boron carbide equation of state using computation and experiment. Physical Review E, 2020, 102, 053203.	2.1	6
9	Role of opacity at the 9 keV back lighter energy used in measuring the equation of state of boron at pressures up to a Gbar. High Energy Density Physics, 2020, 37, 100880.	1.5	1
10	X-ray-line coincidence photopumping in a potassium-chlorine mixed plasma. Physical Review A, 2020, 101, .	2.5	2
11	Designing a high-reflectivity normal-incidence Ge/Si multilayer X-ray mirror for the 44-50 nm wavelength range. OSA Continuum, 2020, 3, 3460.	1.8	1
12	Observation of He-like Satellite Lines of the H-like Potassium K xix Emission. Astrophysical Journal, 2019, 881, 92.	4.5	7
13	Developing quartz and molybdenum as impedance-matching standards in the 100-Mbar regime. Physical Review B, 2019, 99, .	3.2	15
14	Opacity of shock-heated boron plasmas. High Energy Density Physics, 2019, 31, 92-98.	1.5	1
15	Equation of state of boron nitride combining computation, modeling, and experiment. Physical Review B, 2019, 99, .	3.2	28
16	Using the XFEL to Drive Gain in K-Shell and L-Shell Systems Using Photoionization and Photoexcitation of Inner Shell Transitions. Springer Proceedings in Physics, 2018, , 101-104.	0.2	0
17	X-ray line coincidence photopumping in a solar flare. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3782-3786.	4.4	1
18	Absolute Hugoniot measurements from a spherically convergent shock using x-ray radiography. Review of Scientific Instruments, 2018, 89, 053505.	1.3	24

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19	Absolute Equation-of-State Measurement for Polystyrene from 25 to 60ÅMbar Using a Spherically Converging Shock Wave. Physical Review Letters, 2018, 121, 025001.	7.8	39
20	Theoretical and experimental investigation of the equation of state of boron plasmas. Physical Review E, 2018, 98, 023205.	2.1	23
21	Modelling K shell spectra from short pulse heated buried microdot targets. High Energy Density Physics, 2017, 23, 178-183.	1.5	11
22	Using the XFEL to drive gain in L-shell systems using photoionization processes. , 2017, , .		0
23	Self-photopumped x-ray lasers from elements in the Ne-like and Ni-like ionization state. Optics Communications, 2017, 382, 288-293.	2.1	5
24	X-ray Thomson scattering measurements from hohlraum-driven spheres on the OMEGA laser. Review of Scientific Instruments, 2016, 87, 11E724.	1.3	6
25	X-ray scattering measurements on imploding CH spheres at the National Ignition Facility. Physical Review E, 2016, 94, 011202.	2.1	64
26	Using neutrons to measure keV temperatures in highly compressed plastic at multi-Gbar pressures. High Energy Density Physics, 2016, 21, 20-26.	1.5	7
27	Modeling the gain of inner-shell X-ray laser transitions in neon, argon, and copper driven by X-ray free electron laser radiation using photo-ionization and photo-excitation processes. Matter and Radiation at Extremes, 2016, 1, 76-81.	3.9	9
28	Bursts of Terahertz Radiation from Large-Scale Plasmas Irradiated by Relativistic Picosecond Laser Pulses. Physical Review Letters, 2015, 114, 255001.	7.8	60
29	Localization and Screening Enhancement in Asymmetric Binary Ionic Mixtures. Contributions To Plasma Physics, 2015, 55, 413-420.	1.1	9
30	Probing matter at Gbar pressures at the NIF. High Energy Density Physics, 2014, 10, 27-34.	1.5	52
31	Resonant bound-free contributions to Thomson scattering of X-rays by warm dense matter. High Energy Density Physics, 2013, 9, 407-409.	1.5	3
32	The effect of bound states on X-ray Thomson scattering for partially ionized plasmas. High Energy Density Physics, 2013, 9, 388-391.	1.5	4
33	Using the X-ray free-electron laser to drive a photo-pumped helium-like neon X-ray laser at 23Ånm. High Energy Density Physics, 2011, 7, 6-10.	1.5	4
34	Understanding the anomalous dispersion of doubly ionized carbon plasmas near 47nm. High Energy Density Physics, 2008, 4, 107-113.	1.5	7
35	The role of EBIT in X-ray laser research. Canadian Journal of Physics, 2008, 86, 19-23.	1.1	5
36	Multiply ionized carbon plasmas with index of refraction greater than one. Laser and Particle Beams, 2007, 25, 47-51.	1.0	11

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37	Damage and ablation of large bandgap dielectrics induced by a 469 nm laser beam. Optics Letters, 2006, 31, 68.	3.3	36
38	Observation of multiply ionized plasmas with dominant bound electron contribution to the index of refraction. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 165-174.	2.3	8
39	Impact of anomalous dispersion on the interferometer measurements of plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 425-438.	2.3	11
40	Simultaneous imaging of the near- and far-field intensity distributions of the Ni-like Sn X-ray laser. Applied Physics B: Lasers and Optics, 2004, 78, 971-974.	2.2	2
41	Boron-carbide barrier layers in scandium-silicon multilayers. Thin Solid Films, 2004, 469-470, 372-376.	1.8	20
42	Plasmas with an index of refraction greater than 1. Optics Letters, 2004, 29, 2677.	3.3	20
43	Mo:Y multilayer mirror technology utilized to image the near-field output of a Ni-like Sn laser at 119nm. Optics Letters, 2003, 28, 2249.	3.3	7
44	Longitudinal coherence measurements of a transient collisional x-ray laser. Optics Letters, 2003, 28, 2261.	3.3	44
45	Reminiscing about the early years of the X-ray laser. Quantum Electronics, 2003, 33, 1-2.	1.0	8
46	Near-field spatial imaging of the Ni-like palladium soft-X-ray laser. Optics Communications, 2002, 210, 305-312.	2.1	9
47	Demonstration of a neonlike argon soft-x-ray laser with a picosecond-laser-irradiated gas puff target. Optics Letters, 2001, 26, 1403.	3.3	18
48	Dielectronic Structure of $2l \rightarrow 1s$ Transitions of Multicharged Ions of Argon with Nuclear Charges $Z=10-17$. Physica Scripta, 2000, 61, 555-566.	2.5	22
49	Gain Saturation Regime for Laser-Driven Tabletop, Transient Ni-Like Ion X-Ray Lasers. Physical Review Letters, 2000, 84, 4834-4837.	7.8	187
50	The x-ray emission spectra of multicharged xenon ions in a gas puff laser-produced plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 113-122.	1.5	19
51	Lasing on the self-photopumped nickel-like $4f1P1 \rightarrow 4d1P1$ x-ray transition. Physical Review A, 1999, 60, R2677-R2680.	2.5	30
52	Transient collisional excitation X-ray lasers with 1-ps tabletop drivers. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1441-1446.	2.9	9
53	Studies on collisional pumping of soft X-ray lasers at ILE. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1460-1468.	2.9	3
54	Demonstration of transient gain x-ray lasers near 200nm for nickel-like yttrium, zirconium, niobium, and molybdenum. Optics Letters, 1999, 24, 101.	3.3	47

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55	NEW COMPREHENSIVE THEORETICAL ANALYSIS OF THE DOUBLY EXCITED STATES OF SODIUM-LIKE IRON. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 60, 605-622.	2.3	4
56	Gain saturation of the Ni-like X-ray lasers. Optics Communications, 1998, 158, 55-60.	2.1	33
57	Wavelengths of the Ni-like $4d1S0 \rightarrow 4p1P1$ x-ray laser line. Physical Review A, 1998, 58, R2668-R2671.	2.5	41
58	Scaling Laws for Electron Densities and Gain Coefficients in Low-Z Ne-like Lasers. Physica Scripta, 1998, 57, 237-241.	2.5	3
59	Theoretical analysis of the Doubly Excited $3nl'$ States of Sodiumlike Copper. Physica Scripta, 1998, 57, 334-344.	2.5	5
60	Dielectronic Recombination for F-like and Ne-like Ions. Physica Scripta, 1998, 58, 203-219.	2.5	3
61	Precision measurements of the wavelengths of spectral lines of multiply charged krypton and argon ions formed in a gas target heated by laser radiation. Quantum Electronics, 1997, 27, 691-695.	1.0	8
62	Study of Ne- and Ni-like x-ray lasers using the prepulse technique. Physics of Plasmas, 1997, 4, 479-489.	1.9	25
63	High-resolution measurement, line identification, and spectral modeling of the $K\hat{\nu}$ spectrum of heliumlike argon emitted by a laser-produced plasma using a gas-puff target. Physical Review E, 1997, 55, 3773-3776.	2.1	19
64	Analysis of a picosecond-laser-driven Ne-like Ti x-ray laser. Physical Review A, 1997, 55, 3271-3274.	2.5	23
65	Demonstration of Saturation in a Ni-like Ag X-Ray Laser at 14 nm. Physical Review Letters, 1997, 78, 3856-3859.	7.8	99
66	Near-field spatial imaging of a Ni-like Ag 140-Å... x-ray laser. Physical Review A, 1997, 56, 3161-3165.	2.5	14
67	Two-dimensional spatial imaging of the multiple-pulse-driven 196-nm neonlike germanium x-ray laser. Physical Review A, 1997, 55, 827-830.	2.5	16
68	Atomic Number Scaling of the Nickel-Like Soft X-Ray Lasers. International Journal of Modern Physics B, 1997, 11, 945-990.	2.0	33
69	A Saturated X-ray Laser Beam at 7 Nanometers. Science, 1997, 276, 1097-1100.	12.6	141
70	Measurement of spatial gain distribution for a neonlike germanium 196-nm laser. Optics Letters, 1997, 22, 1320.	3.3	3
71	Optimisation of drive pulse configuration for a Ni-like Sn X-ray laser at 12 nm. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 410-414.	2.1	4
72	COMPARISON OF SATELLITE SPECTRA FOR H-LIKE Fe AND He-LIKE Fe, Ca, AND S CALCULATED BY THREE DIFFERENT METHODS. Atomic Data and Nuclear Data Tables, 1997, 67, 225-329.	2.4	37

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73	Self-photopumped neonlike x-ray laser. <i>Optics Letters</i> , 1996, 21, 408.	3.3	19
74	Two-dimensional near-field images of the neonlike germanium soft-x-ray laser. <i>Optics Letters</i> , 1996, 21, 866.	3.3	14
75	Study of anomalous lasing behavior on the two $J=0 \rightarrow 1$ transitions in Ne-like V. <i>Applied Physics B: Lasers and Optics</i> , 1996, 63, 125-130.	2.2	3
76	Relative merits of using curved targets and the prepulse technique to enhance the output of the neon-like germanium X-ray laser. <i>Optics Communications</i> , 1996, 124, 287-291.	2.1	13
77	Dynamics of a multiple-pulse-driven x-ray laser plasma. <i>Physics of Plasmas</i> , 1996, 3, 606-613.	1.9	0
78	Lasing on the $3d \rightarrow 3p$ neonlike x-ray laser transitions driven by a self-photo-pumping mechanism. <i>Physical Review A</i> , 1996, 53, 4539-4546.	2.5	23
79	Soft-x-ray lasing at 32.6 nm in Ne-like Ti ions driven by 40 J of energy from two 650-ps laser pulses. <i>Physical Review A</i> , 1996, 53, 3640-3646.	2.5	37
80	Saturated output of a GeXXIII x-ray laser at 19.6 nm. <i>Physical Review A</i> , 1996, 54, R4653-R4656.	2.5	55
81	Energies of neon-like $n=4$ to $n=2$ resonance lines. <i>Physica Scripta</i> , 1996, 54, 183-187.	2.5	7
82	Dielectronic satellites to the Ne-like yttrium resonance lines. <i>Physica Scripta</i> , 1996, 54, 240-249.	2.5	3
83	Space-resolved investigation of lasing on the two $J = 0 \rightarrow 1$, $3p-3s$ transitions at 20.5 and 25.5 nm in neon-like iron. <i>Optics Communications</i> , 1995, 119, 557-562.	2.1	5
84	Measurement of the $3d-4f$ transition in Ni-like Er for use in a photopumped x-ray-laser scheme. <i>Physical Review A</i> , 1995, 51, 1683-1686.	2.5	5
85	Nearly Monochromatic Lasing at 182 Å in Neonlike Selenium. <i>Physical Review Letters</i> , 1995, 74, 3376-3379.	7.8	57
86	Measurements of line overlap for resonant spoiling of x-ray lasing transitions in nickel-like tungsten. <i>Physical Review A</i> , 1995, 52, 2689-2692.	2.5	27
87	High-resolution measurements of Mg xi and Cu xx resonance and satellite transitions and the resonance defect in the Mg-pumped Cu x-ray laser scheme. <i>Physical Review A</i> , 1995, 52, 3644-3650.	2.5	11
88	The study of Na-like multiply-charged ion x-ray spectra excited by a pulsed laser plasma source. <i>Physica Scripta</i> , 1995, 52, 377-385.	2.5	3
89	Transitions from Na-like and Mg-like autoionizing levels of multicharged molybdenum ions in an X-pinch plasma. <i>Physica Scripta</i> , 1995, 51, 454-458.	2.5	9
90	Photo-pumping resonance for modifying the kinetics of a neonlike La47+laser. <i>Physica Scripta</i> , 1995, 51, 322-325.	2.5	11

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91	Inner-Shell transitions of Be-like ions with $Z=6$ –54. <i>Physica Scripta</i> , 1995, 51, 589-593.	2.5	13
92	Study of lasing in low-Z neon-like ions using the prepulse technique. <i>Physica Scripta</i> , 1995, 52, 158-161.	2.5	12
93	Sensitivity of lasing in neonlike zinc at 212 nm to the use of the prepulse technique. <i>Optics Letters</i> , 1995, 20, 374.	3.3	44
94	Lasing at 79 nm in nickellike neodymium. <i>Optics Letters</i> , 1995, 20, 1386.	3.3	49
95	The observation of the Ne-like ion resonance line satellites for Cr XV and Ni XIX CO ₂ -laser produced plasma. <i>Physica Scripta</i> , 1994, 50, 102-105.	2.5	12
96	Measurements of 3d-5f and 3d-6f transition energies in nickel-like ions for resonant photopumping by helium-like ions. <i>Physica Scripta</i> , 1994, 49, 556-560.	2.5	9
97	Reinterpretation of the neon-like titanium laser experiments. <i>Optical Engineering</i> , 1994, 33, 2687.	1.0	10
98	Wavelengths of neon-like 3p ¹ 3s X-ray laser transitions. <i>Physica Scripta</i> , 1994, 49, 588-591.	2.5	50
99	The dielectronic satellites to the 2s-3p Ne-like krypton resonance lines. <i>Physica Scripta</i> , 1994, 50, 106-109.	2.5	21
100	Resonant photo-pumping of neon-like cobalt with sodium Ly- α radiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 4523-4529.	1.5	1
101	Use of a laser plasma in determination of a resonance defect of the Ly β 1,2 lines of Mg XII and the 2s ² 3p lines of Ge XXIII. <i>Quantum Electronics</i> , 1994, 24, 133-137.	1.0	4
102	Resonant-line overlap for photopumping and spoiling of x-ray lasing transitions in neonlike Fe xvii and Cu xx. <i>Physical Review A</i> , 1994, 49, 3123-3126.	2.5	10
103	Hyperfine splittings of neonlike lasing lines. <i>Physical Review A</i> , 1994, 49, 2381-2388.	2.5	9
104	Measurement of the Ly β Mg resonance with the 2s ² 3p Ne-like Ge line. <i>Physical Review A</i> , 1994, 50, 2143-2149.	2.5	26
105	Comparison of autoionization rates for 3l3l' states of two electron systems. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1994, 52, 729-741.	2.3	4
106	Precision measurements and identification of laser plasma emission spectra due to transitions from doubly excited levels of the sodium-like selenium ion. <i>Measurement Techniques</i> , 1994, 37, 477-492.	0.6	2
107	Investigation of gain and hyperfine splitting in the niobium X-ray laser. <i>Applied Physics B: Lasers and Optics</i> , 1994, 58, 3-5.	2.2	2
108	X-ray lasers as sources for resonance-fluorescence experiments. <i>Applied Physics B: Lasers and Optics</i> , 1994, 58, 7-11.	2.2	10

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109	Autoionization states of lithium-like ions with large principal quantum number. Journal of Quantitative Spectroscopy and Radiative Transfer, 1994, 51, 853-874.	2.3	12
110	Traveling wave excitation and amplification of neon-like germanium $3p \rightarrow 3s$ transitions. Optics Communications, 1994, 110, 585-589.	2.1	43
111	A 64 Å... Ne-like Ge X-ray laser resonantly photo-pumped by Ly- β Mg radiation. Optics Communications, 1994, 108, 283-288.	2.1	7
112	Use of the prepulse technique to enhance the weak 182-nm laser line in neonlike selenium. Optics Letters, 1994, 19, 1137.	3.3	16
113	Z-dependences of the atomic characteristics for $1s2l2l'$ states of three electron systems. Journal of Quantitative Spectroscopy and Radiative Transfer, 1993, 49, 371-381.	2.3	11
114	Spectra of multiply charged nickel and copper ions in an X-pinch plasma. Quantum Electronics, 1993, 23, 397-405.	1.0	12
115	Neon-like X-ray lasers of zirconium, niobium and bromine. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, L243-L247.	1.5	17
116	Spectra of zinc ions in the wavelength region 0.65-1.18 nm observed in a plasma heated by a Nd laser. Quantum Electronics, 1993, 23, 1010-1025.	1.0	5
117	An argon-pumped yttrium X-ray laser. Physica Scripta, 1993, 47, 42-44.	2.5	14
118	Measurement of line overlap for resonant photopumping of transitions in neonlike ions by nickel-like ions. Physical Review A, 1993, 47, 1403-1406.	2.5	23
119	Observation of hyperfine splitting on an x-ray laser transition. Physical Review Letters, 1993, 70, 3713-3716.	7.8	19
120	Prepulse technique for producing low-ZNe-like x-ray lasers. Physical Review A, 1993, 48, 4682-4685.	2.5	162
121	Measurements of line overlap for resonant photopumping of $4d \rightarrow 4$ transitions in highly charged nickel-like ions. Physical Review A, 1992, 46, R25-R28.	2.5	19
122	Reinvestigating the early resonantly photopumped x-ray laser schemes. Applied Optics, 1992, 31, 4950.	2.1	32
123	Resonantly photo-pumped Li-like x-ray lasers. Applied Optics, 1992, 31, 4957.	2.1	10
124	17-nm rubidium-ion laser. Optics Letters, 1992, 17, 1518.	3.3	5
125	Z-dependences of the energy levels and autoionization rates for 2141 states of two electron systems. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 48, 61-78.	2.3	9
126	Resonantly photo-pumped Na-like X-ray lasers. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 47, 171-177.	2.3	13

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127	An Ne-like Fe laser resonantly photo-pumped by Ne X Ly- $\hat{\pm}$ radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 547-556.	2.3	8
128	Resonantly photo-pumped Ni-like Ti X-ray laser. Physica Scripta, 1991, 43, 596-598.	2.5	8
129	Analysis of the resonantly photopumped Na-Ne x-ray-laser scheme. Physical Review A, 1991, 44, 4591-4598.	2.5	25
130	Ni-like x-ray lasers resonantly photopumped by Ly- $\hat{\pm}$ radiation. Physical Review Letters, 1991, 66, 305-308.	7.8	26
131	Z-dependences of atomic parameters of autoionization states of two-electron systems. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1990, 33, 670-684.	0.0	1
132	A Ne-like Cu laser resonantly photo-pumped by a He-like Mg line. Optics Communications, 1990, 78, 51-57.	2.1	9
133	Z-dependences of the atomic characteristics for selected 2l4l' states. Journal of Quantitative Spectroscopy and Radiative Transfer, 1990, 43, 445-450.	2.3	5
134	Z dependences of the energy levels and autoionization rates for 2l3l' states of two-electron systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 4451-4467.	1.5	15
135	Demonstration of a narrow-divergence x-ray laser in neonlike titanium. Physical Review A, 1990, 42, 6962-6965.	2.5	102
136	Vanadium-pumped titanium x-ray laser. Optics Letters, 1990, 15, 798.	3.3	8
137	Resonantly photopumped Ni-like Er x-ray laser. Physical Review A, 1989, 40, 5440-5443.	2.5	14
138	Dielectronic satellite spectra for neon-like ions. Atomic Data and Nuclear Data Tables, 1989, 41, 131-177.	2.4	25
139	A 33 angstrom laboratory X-ray laser. Optics Communications, 1989, 72, 371-376.	2.1	8
140	Dielectronic satellite spectra for helium-like ions. Atomic Data and Nuclear Data Tables, 1988, 38, 339-379.	2.4	74
141	Resonant photoionization for sodiumlike selenium. Physical Review A, 1988, 38, 2167-2170.	2.5	3
142	Dielectronic satellite spectra for hydrogen-like ions. Atomic Data and Nuclear Data Tables, 1987, 37, 191-233.	2.4	35
143	Dielectronic recombination rate coefficients for hydrogen-like ions. Journal of Quantitative Spectroscopy and Radiative Transfer, 1986, 36, 539-545.	2.3	13
144	Dielectronic-recombination-rate coefficients for neonlike ions. Physical Review A, 1986, 33, 264-268.	2.5	40

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145	Laser with dynamic holographic intracavity distortion correction capability. Applied Physics Letters, 1982, 41, 219-220.	3.3	61
146	Nondegenerate four-wave mixing in a homogeneously broadened two-level system with saturating pump waves. IEEE Journal of Quantum Electronics, 1982, 18, 1947-1952.	1.9	14
147	Narrow-band optical filter through phase conjugation by nondegenerate four-wave mixing in sodium vapor. Optics Letters, 1981, 6, 380.	3.3	31
148	A tunable narrowband optical filter via phase conjugation by nondegenerate four-wave mixing in a doppler-broadened resonant medium. Optics Communications, 1981, 39, 199-204.	2.1	14
149	An ultrahigh-Q isotropically sensitive optical filter employing atomic resonance transitions. Journal of Applied Physics, 1979, 50, 610-614.	2.5	49
150	Oscillator strengths of the first forbidden lines of rubidium. Journal of Quantitative Spectroscopy and Radiative Transfer, 1978, 20, 327-329.	2.3	9