David D Smith

List of Publications by Year
in descending order

28 papers	1,266 citations	687363 13 h-index	610901 24 g-index
28 all docs	28 docs citations	28 times ranked	1151 citing authors

#	Article	IF	Citations
1	Coupled-resonator-induced transparency. Physical Review A, 2004, 69, .	2.5	457
2	z-scan measurement of the nonlinear absorption of a thin gold film. Journal of Applied Physics, 1999, 86, 6200-6205.	2.5	149
3	Cancellation of photoinduced absorption in metal nanoparticle composites through a counterintuitive consequence of local field effects. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 1625.	2.1	107
4	Whispering-gallery mode splitting in coupled microresonators. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1967.	2.1	92
5	Nonlinear optical properties of a gold-silica composite with high gold fill fraction and the sign change of its nonlinear absorption coefficient. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 945.	2.1	54
6	Dispersion-enhanced laser gyroscope. Physical Review A, 2008, 78, .	2.5	52
7	Enhanced sensitivity of a passive optical cavity by an intracavity dispersive medium. Physical Review A, 2009, 80, .	2.5	46
8	Fast-light enhancement of an optical cavity by polarization mode coupling. Physical Review A, 2014, 89, .	2.5	46
9	Coherence phenomena in coupled pptical resonators. Journal of Modern Optics, 2004, 51, 2503-2513.	1.3	38
10	Coupled-resonator-induced transparency in a fiber system. Optics Communications, 2006, 264, 163-168.	2.1	35
11	Tunable optical properties of metal nanoparticle solâ€“gel composites. Journal of Non-Crystalline Solids, 2001, 285, 256-263.	3.1	34
12	Gain-assisted superluminal propagation in coupled optical resonators. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2237.	2.1	31
13	Photonic bandgaps in Mie scattering by concentrically stratified spheres. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2449.	2.1	26
14	Quantum-noise-limited sensitivity enhancement of a passive optical cavity by a fast-light medium. Physical Review A, 2016, 94, .	2.5	14
15	Parity-time-symmetry-breaking gyroscopes: lasing without gain and subthreshold regimes. Optics Express, 2019, 27, 34169.	3.4	14
16	Tuning the scale factor and sensitivity of a passive cavity with optical pumping. Physical Review A, 2012, 85, .	2.5	13
17	Cascaded photoenhancement from coupled nanoparticle and microcavity resonance effects. Optics Express, 2007, 15, 3575.	3.4	11
18	Temperature sensitivity of the cavity scale factor enhancement for a Gaussian absorption resonance. Physical Review A, 2015, 92, .	2.5	9

#	Article	IF	Citations
19	Surface plasmon resonance evaluation of colloidal silver aerogel filters. Journal of Non-Crystalline Solids, 1998, 225, 330-334.	3.1	7
20	Dispersion enhancement in atom-cavity and coupled cavity systems. , 2013, , .		7
21	Rabi cycling of two pulses in a mode-locked ring laser cavity with electro-optical control. Physical Review A, 2008, 78, .	2.5	6
22	Noble Metal Immersion Spectroscopy of Silica Alcogels and Aerogels. Journal of Porous Materials, 2000, 7, 499-508.	2.6	5
23	Closed-loop superluminal passive cavity. Optics Express, 2018, 26, 14905.	3.4	5
24	Tuning the sensitivity of an optical cavity with slow and fast light. Proceedings of SPIE, 2012, , .	0.8	4
25	High-precision, accurate optical frequency reference using a Fabryâ€“PerÃ³t diode laser. Review of Scientific Instruments, 2017, 88, 063101.	1.3	4
26	Saturable Absorption in Nanocomposite Gold-Silica Materials with high Gold Fill Fraction. , 2007, , .		0
27	Fast-light enhancement by polarization mode coupling in a single optical cavity. Proceedings of SPIE, 2014, , .	0.8	0
28	The sign change of nonlinear absorption for low and high fill-fraction gold-dielectric composites. , 2008, , .		0