Alexei V Sokolov

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5688272/publications.pdf

Version: 2024-02-01

516215 360668 1,307 64 16 35 citations g-index h-index papers 66 66 66 1338 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Quantum optical immunoassay: upconversion nanoparticle-based neutralizing assay for COVID-19. Scientific Reports, 2022, 12, 1263.	1.6	8
2	Observations of ultrafast superfluorescent beatings in a cesium atomic vapor excited by femtosecond laser pulses. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 428, 127945.	0.9	6
3	Gold nanolens for chiral single molecule spectroscopy. Laser Physics Letters, 2022, 19, 035701.	0.6	0
4	Giving entangled photons new colors. Science, 2022, 376, 575-576.	6.0	1
5	Characterization and Identification of Fungal Conidia via Shifted Excitation Raman Difference Spectroscopy. Reports in Advances of Physical Sciences, 2022, 06, .	0.6	O
6	Resolving the Sequence of RNA Strands by Tip-Enhanced Raman Spectroscopy. ACS Photonics, 2021, 8, 424-430.	3.2	15
7	Gap Mode Tip-Enhanced Raman and AFM Imaging of RNA Strands. , 2021, , .		O
8	Simultaneous In Situ Characterizations of Ultrashort Laser Pulses and the Nonlinear Susceptibility of the Irradiated Medium via Time-Resolved Hybrid Coherent Anti-Stokes Raman Scattering Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 925-930.	2.1	0
9	Femtosecond Time-Resolved Infrared-Resonant Third-Order Sum-Frequency Spectroscopy. ACS Photonics, 2021, 8, 1137-1142.	3.2	8
10	Compact X-ray laser amplifier in the "Water Window― Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 255, 119675.	2.0	2
11	Raman Characterization of Fungal DHN and DOPA Melanin Biosynthesis Pathways. Journal of Fungi (Basel, Switzerland), 2021, 7, 841.	1.5	12
12	Enhancing stimulated Raman excitation and two-photon absorption using entangled states of light. Physical Review Research, 2021, 3, .	1.3	12
13	Usability of Tilted Plasmon Antenna with Structured Light. Photonics, 2021, 8, 504.	0.9	0
14	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. Applied Physics Letters, 2020, 117, 120601.	1.5	34
15	Synthesis of ultrafast waveforms using coherent Raman sidebands. Physical Review A, 2020, 102, .	1.0	6
16	Laser spectroscopic technique for direct identification of a single virus I: FASTER CARS. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27820-27824.	3.3	25
17	Hybrid CARS spectroscopy based on a high-repetition-rate all-PM-fiber laser source. Applied Physics Letters, 2020, 117, 081103.	1.5	2
18	Gap-Mode Tip-Enhanced Raman Scattering on Au Nanoplates of Varied Thickness. Journal of Physical Chemistry Letters, 2020, 11, 3815-3820.	2.1	17

#	Article	IF	CITATIONS
19	Molecular origin of the Raman signal from Aspergillus nidulans conidia and observation of fluorescence vibrational structure at room temperature. Scientific Reports, 2020, 10, 5428.	1.6	8
20	Comment on "Enhancement of the Raman Effect by Infrared Pumping― Physical Review Letters, 2020, 124, 159401.	2.9	0
21	Femtosecond pump-probe studies of atomic hydrogen superfluorescence in flames. Applied Physics Letters, 2020, 116, 201102.	1.5	4
22	Adaptive optics approach to surface-enhanced Raman scattering. Optics Letters, 2020, 45, 3709.	1.7	5
23	Identification of toxic mold species through Raman spectroscopy of fungal conidia. PLoS ONE, 2020, 15, e0242361.	1.1	10
24	Generation of Ultrafast Optical Pulses via Molecular Modulation in Ambient Air. Applied Sciences (Switzerland), 2019, 9, 2509.	1.3	0
25	Fluorescence imaging of stained red blood cells with simultaneous resonance Raman photostability analysis. Analyst, The, 2019, 144, 4362-4370.	1.7	2
26	CARS spectroscopy of Aspergillus nidulans spores. Scientific Reports, 2019, 9, 1789.	1.6	7
27	Coherent Raman Generation Controlled by Wavefront Shaping. Scientific Reports, 2019, 9, 1565.	1.6	11
28	Tip-Enhanced Raman Imaging of Single-Stranded DNA with Single Base Resolution. Journal of the American Chemical Society, 2019, 141, 753-757.	6.6	102
29	Light, the universe and everything – 12 Herculean tasks for quantum cowboys and black diamond skiers. Journal of Modern Optics, 2018, 65, 1261-1308.	0.6	6
30	Power and chirp effects on the frequency stability of resonant dispersive waves generated in photonic crystal fibres. Scientific Reports, 2018, 8, 181.	1.6	1
31	Controlled supercontinua via spatial beam shaping. Journal of Modern Optics, 2018, 65, 1332-1335.	0.6	8
32	Giant Chemical Surface Enhancement of Coherent Raman Scattering on MoS ₂ . ACS Photonics, 2018, 5, 4960-4968.	3.2	28
33	Metal–Organic–Inorganic Nanocomposite Thermal Interface Materials with Ultralow Thermal Resistances. ACS Applied Materials & Interfaces, 2017, 9, 10120-10127.	4.0	17
34	Interaction of femtosecond laser pulses with plants: towards distinguishing weeds and crops using plasma temperature. Journal of Modern Optics, 2017, 64, 942-947.	0.6	4
35	Collinear FAST CARS for Chemical Mapping of Gases. Applied Sciences (Switzerland), 2017, 7, 705.	1.3	9
36	Spatially offset Raman microspectroscopy of highly scattering tissue: theory and experiment. Journal of Modern Optics, 2015, 62, 97-101.	0.6	21

3

#	Article	IF	CITATIONS
37	Observing the transition from yoked superfluorescence to superradiance. Optics Communications, 2015, 351, 45-49.	1.0	12
38	Nonlinear optical effects and trends of near-infrared laser retinal damage. , 2015, , .		2
39	Pulsed cooperative backward emissions from non-degenerate atomic transitions in sodium. New Journal of Physics, 2014, 16, 103017.	1.2	14
40	Surface-Enhanced Raman Scattering on Template-Embedded Gold Nanorod Substrates. Journal of Modern Optics, 2014, 61, 72-76.	0.6	1
41	Theoretical analysis of the coherence-brightened laser in air. Physical Review A, 2013, 87, .	1.0	35
42	Coherence brightened laser source for atmospheric remote sensing. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15185-15190.	3.3	65
43	Time-Resolved Surface-Enhanced Coherent Sensing of Nanoscale Molecular Complexes. Scientific Reports, 2012, 2, 891.	1.6	50
44	Picosecond superradiance in a three-photon resonant medium. Physical Review A, 2012, 85, .	1.0	18
45	Toward Single-Cycle Pulse Generation in Raman-Active Crystals. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 460-466.	1.9	13
46	Carrier-envelope offset frequency measurement for tunable femtosecond lasers using resonant dispersive waves. Optics Letters, 2011, 36, 891.	1.7	5
47	Widely tunable femtosecond solitonic radiation in photonic crystal fiber cladding. Physical Review A, 2010, 81, .	1.0	10
48	Propagation of ultrashort laser pulses in water: linear absorption and onset of nonlinear spectral transformation. Applied Optics, 2010, 49, 513.	2.1	5
49	Femtosecond wave-packet dynamics in cesium dimers studied through controlled stimulated emission. Physical Review A, 2010, 81, .	1.0	12
50	Broadband light generation using a relatively weak Raman mode in lead tungstate crystal. Journal of Modern Optics, 2010, 57, 1863-1866.	0.6	9
51	Epi-detected hybrid coherent Raman micro-spectroscopy. Journal of Modern Optics, 2009, 56, 1964-1969.	0.6	1
52	Simple setup for hybrid coherent Raman microspectroscopy. Journal of Raman Spectroscopy, 2009, 40, 795-799.	1.2	16
53	Fourth-order dispersion mediated solitonic radiations in HC-PCF cladding. Optics Letters, 2008, 33, 2680.	1.7	29
54	Optical imaging beyond the diffraction limit via dark states. Physical Review A, 2008, 78, .	1.0	71

#	Article	IF	CITATIONS
55	Time-delayed coherent Raman spectroscopy. Molecular Physics, 2008, 106, 587-594.	0.8	9
56	Absolute phase measurement for broadband collinear Raman generation., 2008,,.		0
57	Comparison of coherent and spontaneous Raman microspectroscopies for noninvasive detection of single bacterial endospores. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7776-7779.	3.3	132
58	Simple technique for spectral and temporal control of a mode-locked Ti:sapphire oscillator. Journal of Modern Optics, 2007, 54, 2689-2698.	0.6	5
59	Optimizing the Laser-Pulse Configuration for Coherent Raman Spectroscopy. Science, 2007, 316, 265-268.	6.0	308
60	Coherent versus incoherent Raman scattering: molecular coherence excitation and measurement. Optics Letters, 2007, 32, 1725.	1.7	51
61	Efficient Broadband Raman Generation in Crystals Driven by Dual-Frequency Femtosecond Laser Fields. , 2007, , .		3
62	Femtosecond CARS of methanol-water mixtures. Journal of Raman Spectroscopy, 2006, 37, 392-396.	1.2	40
63	Interplay of molecular modulation technique and stimulated raman scattering for generation of ultra-broadband radiation. , 2006, , .		0
64	Nuclear collisions in heteronuclear molecules driven by an ultrastrong laser field., 2006,,.		0