

Marlan O Scully

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,051
citations

394421

19
h-index

477307

29
g-index

57
all docs

57
docs citations

57
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum optical immunoassay: upconversion nanoparticle-based neutralizing assay for COVID-19. <i>Scientific Reports</i> , 2022, 12, 1263.	3.3	8
2	Label-free sensing of cells with fluorescence lifetime imaging: The quest for metabolic heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	35
3	Sub-Nyquist computational ghost imaging with orthonormal spectrum-encoded speckle patterns. <i>Physical Review A</i> , 2022, 105, .	2.5	11
4	0.8% Nyquist computational ghost imaging via non-experimental deep learning. <i>Optics Communications</i> , 2022, 520, 128450.	2.1	11
5	Characterization and Identification of Fungal Conidia via Shifted Excitation Raman Difference Spectroscopy. <i>Reports in Advances of Physical Sciences</i> , 2022, 06, .	0.2	0
6	Resolving the Sequence of RNA Strands by Tip-Enhanced Raman Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 424-430.	6.6	15
7	Quantum Advantage with Seeded Squeezed Light for Absorption Measurement. <i>Physical Review Applied</i> , 2021, 15, .	3.8	12
8	Natural and magnetically induced entanglement of hyperfine-structure states in atomic hydrogen. <i>Physical Review A</i> , 2021, 103, .	2.5	1
9	Sub-Rayleigh second-order correlation imaging using spatially distributive colored noise speckle patterns. <i>Optics Express</i> , 2021, 29, 19621.	3.4	11
10	Noise-robust computational ghost imaging with pink noise speckle patterns. <i>Physical Review A</i> , 2021, 104, .	2.5	25
11	Raman Spectroscopy as a Robust New Tool for Rapid and Accurate Evaluation of Drought Tolerance Levels in Both Genetically Diverse and Near-Isogenic Maize Lines. <i>Frontiers in Plant Science</i> , 2021, 12, 621711.	3.6	3
12	Compact X-ray laser amplifier in the "Water Window". <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 255, 119675.	3.9	2
13	Raman Characterization of Fungal DHN and DOPA Melanin Biosynthesis Pathways. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 841.	3.5	12
14	Observation of Intensity Squeezing in Resonance Fluorescence from a Solid-State Device. <i>Physical Review Letters</i> , 2020, 125, 153601.	7.8	11
15	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. <i>Applied Physics Letters</i> , 2020, 117, 120601.	3.3	34
16	Laser spectroscopic technique for direct identification of a single virus I: FASTER CARS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27820-27824.	7.1	25
17	Simultaneous Excitation of Two Noninteracting Atoms with Time-Frequency Correlated Photon Pairs in a Superconducting Circuit. <i>Physical Review Letters</i> , 2020, 125, 133601.	7.8	15
18	Nonlinear spin currents. <i>Physical Review B</i> , 2020, 102, .	3.2	18

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19	Molecular origin of the Raman signal from <i>Aspergillus nidulans</i> conidia and observation of fluorescence vibrational structure at room temperature. <i>Scientific Reports</i> , 2020, 10, 5428.	3.3	8
20	Observation of Acoustically Induced Transparency for $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \hat{I}^3 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Ray Photons. <i>Physical Review Letters</i> , 2020, 124, 163602.	7.8	12
21	Identification of toxic mold species through Raman spectroscopy of fungal conidia. <i>PLoS ONE</i> , 2020, 15, e0242361.	2.5	10
22	Quantum Interference between Light Sources Separated by 150 Million Kilometers. <i>Physical Review Letters</i> , 2019, 123, 080401.	7.8	57
23	Polariton-Assisted Cooperativity of Molecules in Microcavities Monitored by Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4448-4454.	4.6	24
24	Quantum plasmonic control of trions in a picocavity with monolayer WS ₂ . <i>Science Advances</i> , 2019, 5, eaau8763.	10.3	39
25	Synthesis of antisymmetric spin exchange interaction and chiral spin clusters in superconducting circuits. <i>Nature Physics</i> , 2019, 15, 382-386.	16.7	58
26	Probing the Effect of Chemical Dopant Phase on Photoluminescence of Monolayer MoS ₂ Using in Situ Raman Microspectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15738-15743.	3.1	11
27	Fluorescence imaging of stained red blood cells with simultaneous resonance Raman photostability analysis. <i>Analyst</i> , The, 2019, 144, 4362-4370.	3.5	2
28	Fiber-Optic Quantum Thermometry with Germanium-Vacancy Centers in Diamond. <i>ACS Photonics</i> , 2019, 6, 1690-1693.	6.6	26
29	CARS spectroscopy of <i>Aspergillus nidulans</i> spores. <i>Scientific Reports</i> , 2019, 9, 1789.	3.3	7
30	Nuclear Quantum Memory and Time Sequencing of a Single $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \hat{I}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Photon. <i>Physical Review Letters</i> , 2019, 123, 250504.	7.8	18
31	Attosecond Pulse Amplification in a Plasma-Based X-Ray Laser Dressed by an Infrared Laser Field. <i>Physical Review Letters</i> , 2019, 123, 243903.	7.8	19
32	Fluorescent nanodiamond bacteriophage conjugates maintain host specificity. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1427-1436.	3.3	11
33	Light, the universe and everything – 12 Herculean tasks for quantum cowboys and black diamond skiers. <i>Journal of Modern Optics</i> , 2018, 65, 1261-1308.	1.3	6
34	Controlled supercontinua via spatial beam shaping. <i>Journal of Modern Optics</i> , 2018, 65, 1332-1335.	1.3	8
35	Giant Chemical Surface Enhancement of Coherent Raman Scattering on MoS ₂ . <i>ACS Photonics</i> , 2018, 5, 4960-4968.	6.6	28
36	Two-level masers as heat-to-work converters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9941-9944.	7.1	38

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37	Spatially-Resolved Photoluminescence of Monolayer MoS ₂ under Controlled Environment for Ambient Optoelectronic Applications. ACS Applied Nano Materials, 2018, 1, 6226-6235.	5.0	23
38	Quantum optics approach to radiation from atoms falling into a black hole. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8131-8136.	7.1	48
39	Interaction of femtosecond laser pulses with plants: towards distinguishing weeds and crops using plasma temperature. Journal of Modern Optics, 2017, 64, 942-947.	1.3	4
40	Tip-assisted directional growth of atomically thin Ag islands. Journal of Modern Optics, 2017, 64, 936-941.	1.3	0
41	In vivo diagnostics of early abiotic plant stress response via Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3393-3396.	7.1	116
42	Formation and amplification of subfemtosecond x-ray pulses in a plasma medium of hydrogenlike ions with a modulated resonant transition. Physical Review A, 2017, 96, .	2.5	15
43	Quantum statistics of a single-atom Scovil-Schulz-DuBois heat engine. Physical Review A, 2017, 96, .	2.5	26
44	Enhanced coupling of light into a turbid medium through microscopic interface engineering. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7941-7946.	7.1	8
45	Reply to Dong and Zhao: Plant stress via Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5488-E5490.	7.1	4
46	Application of the low-finesse $\hat{\rho}^3$ -ray frequency comb for high-resolution spectroscopy. Physical Review A, 2016, 94, .	2.5	7
47	Analytical treatment of the continuous wave driving of a two-level atom without making the rotating wave approximation. Journal of Modern Optics, 2016, 63, 27-32.	1.3	4
48	Transformation of a single-photon field into bunches of pulses. Physical Review A, 2015, 92, .	2.5	27
49	Spatially offset Raman microspectroscopy of highly scattering tissue: theory and experiment. Journal of Modern Optics, 2015, 62, 97-101.	1.3	21
50	Lightweight Raman spectroscope using time-correlated photon-counting detection. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12315-12320.	7.1	19
51	Sideband generation of transient lasing without population inversion. Physical Review A, 2014, 90, .	2.5	5
52	Atom lithography with subwavelength resolution via Rabi oscillations. Physical Review A, 2013, 87, .	2.5	18
53	Experimental observation of carrier-envelope-phase effects by multicycle pulses. Physical Review A, 2011, 83, .	2.5	23
54	Bohr model and dimensional scaling analysis of atoms and molecules. International Reviews in Physical Chemistry, 2008, 27, 665-723.	2.3	42

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55	Fermi's golden rule does not adequately describe Dicke's superradiance. Journal of Modern Optics, 2008, 55, 3369-3378.	1.3	10
56	Free-electron laser without inversion in the high gain regime. Journal of Modern Optics, 2003, 50, 2507-2514.	1.3	0