

David L Andrews

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5221179/publications.pdf>

Version: 2024-02-01

299
papers

6,093
citations

87888

38
h-index

110387

64
g-index

329
all docs

329
docs citations

329
times ranked

3573
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on structured light. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 013001.	2.2	888
2	Virtual photons, dipole fields and energy transfer: a quantum electrodynamical approach. <i>European Journal of Physics</i> , 2004, 25, 845-858.	0.6	149
3	Resonance energy transfer: The unified theory revisited. <i>Journal of Chemical Physics</i> , 2003, 119, 2264-2274.	3.0	148
4	Chirality and angular momentum in optical radiation. <i>Physical Review A</i> , 2012, 85, .	2.5	120
5	Quantum electrodynamics of resonant energy transfer in condensed matter. <i>Physical Review B</i> , 1994, 49, 8751-8763.	3.2	116
6	500% Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 222-227.	13.8	108
7	Optical orbital angular momentum: twisted light and chirality. <i>Optics Letters</i> , 2018, 43, 435.	3.3	104
8	Atoms in complex twisted light. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 013001.	2.2	102
9	Resonant excitation transfer: A quantum electrodynamical study. <i>Journal of Chemical Physics</i> , 1987, 86, 4011-4017.	3.0	93
10	Resonance energy transfer: Beyond the limits. <i>Laser and Photonics Reviews</i> , 2011, 5, 114-123.	8.7	93
11	Resonance energy transfer and quantum dots. <i>Physical Review B</i> , 2005, 72, .	3.2	91
12	Perspective: Quantum Hamiltonians for optical interactions. <i>Journal of Chemical Physics</i> , 2018, 148, 040901.	3.0	82
13	On optical vortex interactions with chiral matter. <i>Optics Communications</i> , 2004, 237, 133-139.	2.1	80
14	Optically induced forces and torques: Interactions between nanoparticles in a laser beam. <i>Physical Review A</i> , 2005, 72, .	2.5	72
15	Damping and higher multipole effects in the quantum electrodynamical model for electronic energy transfer in the condensed phase. <i>Journal of Chemical Physics</i> , 1997, 107, 5374-5384.	3.0	69
16	Intermolecular energy transfer: Retardation effects. <i>Journal of Chemical Physics</i> , 1992, 96, 6606-6612.	3.0	60
17	A quantum electrodynamical theory of three-center energy transfer for upconversion and downconversion in rare earth doped materials. <i>Journal of Chemical Physics</i> , 2001, 114, 1089-1100.	3.0	59
18	Orbital angular momentum of twisted light: chirality and optical activity. <i>JPhys Photonics</i> , 2021, 3, 022007.	4.6	59

#	ARTICLE	IF	CITATIONS
19	Three-Center Systems for Energy Pooling: A Quantum Electrodynamical Theory. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10834-10842.	2.5	55
20	Multiphoton-excited luminescence of a lanthanide ion in a protein complex: Tb ³⁺ bound to transferrin. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 47.	2.9	54
21	Phased and Boltzmann-weighted rotational averages. <i>Physical Review A</i> , 1984, 29, 2796-2806.	2.5	53
22	Chiral discrimination in optical trapping and manipulation. <i>New Journal of Physics</i> , 2014, 16, 103021.	2.9	52
23	Signatures of material and optical chirality: Origins and measures. <i>Chemical Physics Letters</i> , 2015, 626, 106-110.	2.6	50
24	Mechanistic principles and applications of resonance energy transfer. <i>Canadian Journal of Chemistry</i> , 2008, 86, 855-870.	1.1	48
25	Interactions between spherical nanoparticles optically trapped in Laguerre-Gaussian modes. <i>Optics Letters</i> , 2005, 30, 3039.	3.3	47
26	Measures of chirality and angular momentum in the electromagnetic field. <i>Optics Letters</i> , 2012, 37, 3009.	3.3	47
27	Quantum electrodynamics of resonant energy transfer in condensed matter. II. Dynamical aspects. <i>Physical Review B</i> , 1994, 50, 13371-13378.	3.2	45
28	The electronic influence of a third body on resonance energy transfer. <i>Journal of Chemical Physics</i> , 2002, 116, 6701-6712.	3.0	44
29	Quantum Electrodynamics of Resonance Energy Transfer. <i>Advances in Chemical Physics</i> , 2007, , 357-410.	0.3	43
30	Resonance energy transfer: Influence of neighboring matter absorbing in the wavelength region of the acceptor. <i>Journal of Chemical Physics</i> , 2013, 139, 014107.	3.0	43
31	Laser optical separation of chiral molecules. <i>Optics Letters</i> , 2015, 40, 677.	3.3	43
32	Laser-assisted resonance-energy transfer. <i>Physical Review A</i> , 2000, 61, .	2.5	41
33	Optical Vortex Generation from Molecular Chromophore Arrays. <i>Physical Review Letters</i> , 2013, 111, 153603.	7.8	41
34	Direct and third-body mediated resonance energy transfer in dimensionally constrained nanostructures. <i>Physical Review B</i> , 2015, 92, .	3.2	41
35	500-Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. <i>Angewandte Chemie</i> , 2021, 133, 224-229.	2.0	41
36	The range dependence of fluorescence anisotropy in molecular energy transfer. <i>Journal of Chemical Physics</i> , 1991, 95, 5513-5518.	3.0	40

#	ARTICLE	IF	CITATIONS
37	A new diagrammatic methodology for non-relativistic quantum electrodynamics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 445-468.	1.5	40
38	Optically nonlinear energy transfer in light-harvesting dendrimers. <i>Journal of Chemical Physics</i> , 2004, 121, 2445-2454.	3.0	39
39	Laser-induced forces between carbon nanotubes. <i>Optics Letters</i> , 2005, 30, 783.	3.3	39
40	Optically controlled resonance energy transfer: Mechanism and configuration for all-optical switching. <i>Journal of Chemical Physics</i> , 2008, 128, 144506.	3.0	39
41	Manipulating particles with light: radiation and gradient forces. <i>European Journal of Physics</i> , 2017, 38, 034008.	0.6	39
42	Optical binding of nanoparticles. <i>Nanophotonics</i> , 2020, 9, 1-17.	6.0	39
43	Resonance energy transfer: Spectral overlap, efficiency, and direction. <i>Journal of Chemical Physics</i> , 2007, 127, 084509.	3.0	37
44	Theory of second harmonic generation in randomly oriented species. <i>Chemical Physics</i> , 1995, 190, 1-9.	1.9	36
45	Quantum pathways for resonance energy transfer. <i>Journal of Chemical Physics</i> , 2004, 120, 11442-11448.	3.0	36
46	Spin-orbit interactions and chiroptical effects engaging orbital angular momentum of twisted light in chiral and achiral media. <i>Physical Review A</i> , 2019, 99, .	2.5	36
47	Multichromophore excitons and resonance energy transfer: Molecular quantum electrodynamics. <i>Journal of Chemical Physics</i> , 2003, 118, 3470-3479.	3.0	35
48	Electrodynamic mechanism and array stability in optical binding. <i>Optics Communications</i> , 2008, 281, 865-870.	2.1	35
49	Quantum electrodynamics in modern optics and photonics: tutorial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1153.	2.1	35
50	Mechanisms of Light Energy Harvesting in Dendrimers and Hyperbranched Polymers. <i>Polymers</i> , 2011, 3, 2053-2077.	4.5	33
51	Two-photon fluorescence: Resonance energy transfer. <i>Journal of Chemical Physics</i> , 1998, 108, 3089-3095.	3.0	31
52	Optical binding in nanoparticle assembly: Potential energy landscapes. <i>Physical Review A</i> , 2008, 78, .	2.5	31
53	Direct generation of optical vortices. <i>Physical Review A</i> , 2014, 89, .	2.5	31
54	Vibronic interactions in the visible and near-infrared spectra of C_{60} anion. <i>Physical Review B</i> , 2008, 77, .	3.2	30

#	ARTICLE	IF	CITATIONS
55	QUANTUM CHANNELS IN NONLINEAR OPTICAL PROCESSES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2009, 18, 285-299.	1.8	30
56	Optical angular momentum: Multipole transitions and photonics. <i>Physical Review A</i> , 2010, 81, .	2.5	30
57	<i>Lasers in Chemistry.</i> , 1997, , .		30
58	An algorithm for the nonlinear optical susceptibilities of dipolar molecules, and an application to third harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 1-17.	1.5	29
59	Twin-donor systems for resonance energy transfer. <i>Chemical Physics Letters</i> , 1999, 301, 235-240.	2.6	29
60	Chirality in Optical Trapping and Optical Binding. <i>Photonics</i> , 2015, 2, 483-497.	2.0	29
61	The role of virtual photons in nanoscale photonics. <i>Annalen Der Physik</i> , 2014, 526, 173-186.	2.4	28
62	Chiral discrimination in optical binding. <i>Physical Review A</i> , 2015, 91, .	2.5	28
63	Enhanced optical activity using the orbital angular momentum of structured light. <i>Physical Review Research</i> , 2019, 1, .	3.6	28
64	<i>Energy Harvesting Materials.</i> , 2005, , .		28
65	Symmetry characterization in molecular multiphoton spectroscopy. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1990, 46, 871-885.	0.1	27
66	Forbidden nature of multipolar contributions to second-harmonic generation in isotropic fluids. <i>Physical Review A</i> , 1988, 38, 3113-3115.	2.5	26
67	Chiral nanoemitter array: A launchpad for optical vortices. <i>Laser and Photonics Reviews</i> , 2013, 7, 1088-1092.	8.7	26
68	Controlling resonance energy transfer in nanostructure emitters by positioning near a mirror. <i>Journal of Chemical Physics</i> , 2017, 147, 074117.	3.0	26
69	<i>Lasers in Chemistry.</i> , 1986, , .		24
70	The theory of double-beam three-photon absorption. <i>Journal of Chemical Physics</i> , 1982, 77, 2831-2835.	3.0	23
71	A simple statistical treatment of multiphoton absorption. <i>American Journal of Physics</i> , 1985, 53, 1001-1002.	0.7	23
72	Determination of Fluorescence Polarization and Absorption Anisotropy in Molecular Complexes Having Threefold Rotational Symmetry. <i>Photochemistry and Photobiology</i> , 1996, 63, 39-52.	2.5	23

#	ARTICLE	IF	CITATIONS
73	Quantum electrodynamics of resonance energy transfer in nanowire systems. <i>Physical Review B</i> , 2016, 93, .	3.2	23
74	Two-group Raman optical activity revisited. <i>Faraday Discussions</i> , 1994, 99, 375.	3.2	22
75	On the nature of long range electronic coupling in a medium: Distance and orientational dependence for chromophores in molecular aggregates. <i>Journal of Chemical Physics</i> , 2014, 140, 044103.	3.0	22
76	Cooperative two-photon absorption. <i>Journal of Chemical Physics</i> , 1983, 78, 1088-1094.	3.0	21
77	Optically Induced Second Harmonic Generation by Six-wave Mixing: A Novel Probe of Solute Orientational Dynamics. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3830-3836.	2.5	21
78	Orientation factors in three-centre energy pooling. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2837-2843.	2.8	21
79	Photonic measures of helicity: optical vortices and circularly polarized reflection. <i>Optics Letters</i> , 2013, 38, 869.	3.3	21
80	Irreducible tensors and selection rules for three-frequency absorption. <i>Journal of Chemical Physics</i> , 1985, 83, 2009-2014.	3.0	20
81	Four-center energy transfer and interaction pairs: Molecular quantum electrodynamics. <i>Journal of Chemical Physics</i> , 2002, 116, 6713-6724.	3.0	20
82	Optically activated energy transfer: array implementation. <i>Journal of Optics</i> , 2006, 8, S106-S112.	1.5	20
83	Energy harvesting: a review of the interplay between structure and mechanism. <i>Journal of Nanophotonics</i> , 2008, 2, 022502.	1.0	20
84	Interparticle Interactions: Energy Potentials, Energy Transfer, and Nanoscale Mechanical Motion in Response to Optical Radiation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 75-82.	2.5	20
85	Optically induced inter-particle forces: from the bonding of dimers to optical electrostriction in molecular solids. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S637-S650.	1.5	19
86	Resonance energy transfer: When a dipole fails. <i>Journal of Chemical Physics</i> , 2009, 130, 184504.	3.0	19
87	Chirality in fluorescence and energy transfer. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 032001.	2.3	19
88	The theory of double-beam three-photon absorption. II. Polarization ratio analysis. <i>Journal of Chemical Physics</i> , 1983, 78, 1731-1734.	3.0	18
89	Collapse of optical binding under secondary irradiation. <i>Optics Letters</i> , 2008, 33, 1830.	3.3	18
90	Observation of ultrafast internal conversion in fullerene anions in solution. <i>Chemical Physics Letters</i> , 2009, 474, 112-114.	2.6	18

#	ARTICLE	IF	CITATIONS
91	Mechanism for Optical Enhancement and Suppression of Fluorescence. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6537-6539.	2.5	18
92	Physicality of the Photon. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3878-3884.	4.6	18
93	Second harmonic generation in isotropic media: six-wave mixing of optical vortices. <i>Optics Express</i> , 2013, 21, 12783.	3.4	18
94	Molecular Tensor Analysis of Third-Harmonic Scattering in Liquids. <i>Journal of Physical Chemistry A</i> , 2018, 122, 563-573.	2.5	18
95	Symmetries, Conserved Properties, Tensor Representations, and Irreducible Forms in Molecular Quantum Electrodynamics. <i>Symmetry</i> , 2018, 10, 298.	2.2	18
96	Cooperative two-photon absorption. II. <i>Journal of Chemical Physics</i> , 1984, 80, 4753-4760.	3.0	17
97	Laser assisted resonance energy transfer. <i>Chemical Physics Letters</i> , 1999, 301, 228-234.	2.6	17
98	Development of the energy flow in light-harvesting dendrimers. <i>Journal of Chemical Physics</i> , 2007, 127, 134902.	3.0	17
99	On the conveyance of angular momentum in electronic energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7409.	2.8	17
100	Perturbation theory and the two-level approximation: A corollary and critique. <i>Chemical Physics Letters</i> , 2011, 503, 153-156.	2.6	17
101	Light harvesting in dendrimer materials: Designer photophysics and electrodynamics. <i>Journal of Materials Research</i> , 2012, 27, 627-638.	2.6	17
102	Optical Activity in Third-Harmonic Rayleigh Scattering: A New Route for Measuring Chirality. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100235.	8.7	17
103	The Role of Longitudinal Polarization in Surface Second Harmonic Generation. <i>Journal of Modern Optics</i> , 1993, 40, 939-946.	1.3	16
104	A quantum electrodynamic treatment of second harmonic generation through phase conjugate six-wave mixing: Polarization analysis. <i>Journal of Chemical Physics</i> , 1998, 109, 10580-10586.	3.0	16
105	Surface plasmons with phase singularities and their effects on matter. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 241-243.	2.4	16
106	All-optical control of molecular fluorescence. <i>Physical Review A</i> , 2010, 81, .	2.5	16
107	Electronic energy transfer in condensed phases. , 0, , .		16
108	Exciton resonance energy transfer: Effects of geometry and transition moment orientation in model photosystems. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 130.	2.9	15

#	ARTICLE	IF	CITATIONS
109	Theory of Directed Electronic Energy Transfer. <i>Journal of Fluorescence</i> , 2006, 16, 191-199.	2.5	15
110	Molecular Theory of Harmonic Generation. <i>Advances in Chemical Physics</i> , 2007, , 545-606.	0.3	15
111	All-optical switching between quantum dot nanoarrays. <i>Superlattices and Microstructures</i> , 2010, 47, 308-313.	3.1	15
112	Electromagnetic trapping of chiral molecules: orientational effects of the irradiating beam. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, B25.	2.1	15
113	Identifying diamagnetic interactions in scattering and nonlinear optics. <i>Physical Review A</i> , 2016, 94, .	2.5	15
114	Bimolecular photophysics. <i>Chemical Society Reviews</i> , 1995, 24, 259.	38.1	14
115	Optically Switched Energy Transfer: Twin-Beam Off-Resonance Control. <i>Physical Review Letters</i> , 2007, 99, 023601.	7.8	14
116	Optical binding and the influence of beam structure. <i>Optics Letters</i> , 2008, 33, 2464.	3.3	14
117	Dynamics of the dispersion interaction in an energy transfer system. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5250.	2.8	14
118	A photonic basis for deriving nonlinear optical response. <i>European Journal of Physics</i> , 2009, 30, 239-251.	0.6	14
119	Nonlocalized Generation of Correlated Photon Pairs in Degenerate Down-Conversion. <i>Physical Review Letters</i> , 2017, 118, 133602.	7.8	14
120	Influence of chirality on fluorescence and resonance energy transfer. <i>Journal of Chemical Physics</i> , 2019, 151, 034305.	3.0	14
121	A symmetry analysis of electric-field-induced spectra. <i>Chemical Physics</i> , 1984, 88, 1-5.	1.9	13
122	Second harmonic generation in partially ordered media and at interfaces: analysis of dynamical and orientational factors. <i>Chemical Physics</i> , 1996, 213, 277-294.	1.9	13
123	Femtosecond dynamics of thin films by six-wave mixing. <i>Chemical Physics Letters</i> , 1998, 285, 321-329.	2.6	13
124	Laser-Controlled Fluorescence in Two-Level Systems. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5227-5233.	2.6	13
125	Cooperative mean-frequency absorption: A two-beam two-photon process. <i>Journal of Chemical Physics</i> , 1987, 86, 2453-2459.	3.0	12
126	Single and dual beam optical switching of resonance energy transfer. <i>Journal of Chemical Physics</i> , 2007, 127, 174702.	3.0	12

#	ARTICLE	IF	CITATIONS
127	Influence of the state of light on the optically induced interparticle interaction. <i>Physical Review A</i> , 2009, 79, .	2.5	12
128	Inter-particle interaction induced by broadband radiation. <i>Optics Communications</i> , 2009, 282, 2267-2269.	2.1	12
129	Off-Resonance Control and All-Optical Switching: Expanded Dimensions in Nonlinear Optics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4252.	2.5	12
130	Symmetry and Quantum Features in Optical Vortices. <i>Symmetry</i> , 2021, 13, 1368.	2.2	12
131	Cooperative single-photon absorption at interfaces. <i>Chemical Physics Letters</i> , 1994, 231, 206-210.	2.6	11
132	A QED theory of intermolecular energy transfer in dielectric media. <i>Journal of Luminescence</i> , 1994, 60-61, 834-837.	3.1	11
133	Polarisation analysis of bimolecular excitations mediated by energy transfer: A common theoretical framework for fluorescence migration and sequential Raman scattering. <i>Chemical Physics</i> , 1995, 198, 35-51.	1.9	11
134	Off-resonant activation of optical emission. <i>Optics Communications</i> , 2010, 283, 4365-4367.	2.1	11
135	Quantum electrodynamical theory of high-efficiency excitation energy transfer in laser-driven nanostructure systems. <i>Physical Review B</i> , 2016, 94, .	3.2	11
136	Theory of polarized fluorescence and absorption in molecular complexes comprising two chromophores with non-parallel absorption and emission transition dipole moments. <i>Chemical Physics Letters</i> , 1995, 235, 327-333.	2.6	10
137	Effects of permanent dipole moments in high-order optical nonlinearity. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 2277-2293.	1.5	10
138	An accretive mechanism for blue-shifted fluorescence in strongly pumped systems: resonance energy transfer with Raman emission. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 791-796.	2.5	10
139	Synergistic Effects in Two-Photon Absorption: the Quantum Electrodynamics of Bimolecular Mean-Frequency Absorption. <i>Advances in Chemical Physics</i> , 2007, , 39-102.	0.3	10
140	On the interactions between molecules in an off-resonant laser beam: Evaluating the response to energy migration and optically induced pair forces. <i>Journal of Chemical Physics</i> , 2009, 130, 034504.	3.0	10
141	A back-to-front derivation: the equal spacing of quantum levels is a proof of simple harmonic oscillator physics. <i>European Journal of Physics</i> , 2009, 30, 1371-1380.	0.6	10
142	Geometrical effects on resonance energy transfer between orthogonally-oriented chromophores, mediated by a nearby polarisable molecule. <i>Chemical Physics Letters</i> , 2014, 591, 88-92.	2.6	10
143	Hyper-Rayleigh scattering in centrosymmetric systems. <i>Journal of Chemical Physics</i> , 2015, 143, 124301.	3.0	10
144	Hyper-Raman vibrational spectroscopy with circularly polarized light. <i>Molecular Physics</i> , 1983, 49, 937-944.	1.7	9

#	ARTICLE	IF	CITATIONS
145	Theory of electro-optical effects in two-photon spectroscopy. <i>Journal of Chemical Physics</i> , 1988, 88, 6022-6029.	3.0	9
146	Anomalous absorption of the ultrafast-laser supercontinuum. <i>Physical Review A</i> , 1988, 38, 5129-5139.	2.5	9
147	Selection rules for bimolecular photoabsorption. <i>Chemical Physics</i> , 1992, 165, 1-10.	1.9	9
148	Energy transfer in a static electric field. <i>Journal of Luminescence</i> , 1993, 55, 231-242.	3.1	9
149	Eliminating ground-state dipole moments in quantum optics via canonical transformation. <i>Physical Review A</i> , 2003, 68, .	2.5	9
150	Energy flow in dendrimers: An adjacency matrix representation. <i>Chemical Physics Letters</i> , 2006, 433, 239-243.	2.6	9
151	Expanded horizons for generating and exploring optical angular momentum in vortex structures. <i>Proceedings of SPIE</i> , 2013, , .	0.8	9
152	Resonance Energy Transfer: Theoretical Foundations and Developing Applications. , 0, , 439-478.		9
153	Sum frequency generation from partially ordered media and interfaces: a polarization analysis. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, 2809-2824.	1.5	8
154	Competing mechanisms for energy transfer in two-photon absorbing systems. <i>Chemical Physics Letters</i> , 2006, 430, 191-194.	2.6	8
155	Optical binding: potential energy landscapes and QED. <i>Proceedings of SPIE</i> , 2008, , .	0.8	8
156	Dendrimer light-harvesting: intramolecular electrostatics and mechanisms. <i>Dalton Transactions</i> , 2009, , 10006.	3.3	8
157	Multiple light scattering and optomechanical forces. <i>Journal of Nanophotonics</i> , 2010, 4, 041565.	1.0	8
158	Photon-based and classical descriptions in nanophotonics: a review. <i>Journal of Nanophotonics</i> , 2014, 8, 081599.	1.0	8
159	Raman scattering mediated by neighboring molecules. <i>Journal of Chemical Physics</i> , 2016, 144, 174304.	3.0	8
160	Irreducible Cartesian Tensor Analysis of Harmonic Scattering from Chiral Fluids. <i>Symmetry</i> , 2020, 12, 1466.	2.2	8
161	Optical Energy Harvesting Materials. , 0, , 141-163.		8
162	A distributive mechanism for two-photon mean-frequency absorption. <i>Journal of Chemical Physics</i> , 1988, 89, 4461-4468.	3.0	7

#	ARTICLE	IF	CITATIONS
163	Biexciton resonance energy transfer in a model photosystem. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 39.	2.9	7
164	The control of near-field optics: imposing direction through coupling with off-resonant laser light. <i>Applied Physics B: Lasers and Optics</i> , 2008, 93, 13-20.	2.2	7
165	Signatures of Exciton Coupling in Paired Nanoemitters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12393-12396.	3.1	7
166	Quantum features in the orthogonality of optical modes for structured and plane-wave light. <i>Optics Letters</i> , 2018, 43, 3249.	3.3	7
167	Phase matching and optical geometry considerations in ultrafast non-degenerate six-wave-mixing experiments. <i>Optics Communications</i> , 2000, 174, 285-290.	2.1	6
168	The photon: a virtual reality. , 2005, 5866, 1.		6
169	Laser-modified one- and two-photon absorption: Expanding the scope of optical nonlinearity. <i>Physical Review A</i> , 2013, 88, .	2.5	6
170	Point source generation of chiral fields: measures of near- and far-field optical helicity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 2308.	2.1	6
171	Integrated double-beam hyper-Raman spectroscopy. <i>Molecular Physics</i> , 1984, 52, 969-972.	1.7	5
172	Oriental effects in electric-field-induced spectra. <i>Chemical Physics</i> , 1986, 108, 357-363.	1.9	5
173	Reply to "Multipolar contributions to optical second-harmonic generation in isotropic fluids". <i>Physical Review A</i> , 1990, 41, 4550-4551.	2.5	5
174	Influence of a magnetic field on line intensities in the optical spectra of free molecules. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 513.	1.7	5
175	Quantum electrodynamics of bimolecular multiphoton processes in the condensed phase. <i>Chemical Physics</i> , 1995, 200, 3-10.	1.9	5
176	Nanoscale Optics: Interparticle Forces. , 2008, , 79-105.		5
177	Optically tailored access to metastable electronic states. <i>Chemical Physics Letters</i> , 2013, 590, 235-238.	2.6	5
178	Enhancing Optical Up-Conversion Through Electrodynamic Coupling with Ancillary Chromophores. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23535-23544.	3.1	5
179	Static and dynamic modifications to photon absorption: The effects of surrounding chromophores. <i>Chemical Physics Letters</i> , 2014, 595-596, 151-155.	2.6	5
180	Impact of a charged neighboring particle on Förster resonance energy transfer (FRET). <i>Journal of Physics Condensed Matter</i> , 2020, 32, 095305.	1.8	5

#	ARTICLE	IF	CITATIONS
181	Quantum field representation of photon-molecule interactions. <i>European Journal of Physics</i> , 2020, 41, 025406.	0.6	5
182	Molecular proximity effects in two-photon absorption. <i>Journal of Molecular Structure</i> , 1988, 175, 141-146.	3.6	4
183	Electric-field-induced two-photon absorption. <i>Journal of Chemical Physics</i> , 1988, 88, 6030-6038.	3.0	4
184	Electric-field-induced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 1988, 88, 6039-6048.	3.0	4
185	Two-photon photoselection: an irreducible tensor analysis. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 3051.	1.7	4
186	Quantum-electrodynamical treatment of second-harmonic generation through phase-conjugate six-wave mixing: Temporal analysis. <i>Physical Review A</i> , 2000, 62, .	2.5	4
187	A Quantum Electrodynamical Foundation for Molecular Photonics. , 0, , 603-675.		4
188	A sum rule for nonlinear optical susceptibilities. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, 59-62.	1.4	4
189	Interaction of Laguerre-Gaussian light with liquid crystals. , 2005, , .		4
190	Optical forces between dielectric nanoparticles in an optical vortex. <i>Proceedings of SPIE</i> , 2005, , .	0.8	4
191	Optical switching in nano-arrays: transistor action through directed energy transfer. , 2006, , .		4
192	Optical electrostriction. , 2007, , .		4
193	Principles of Directed Electronic Energy Transfer. <i>Springer Series on Fluorescence</i> , 2007, , 45-66.	0.8	4
194	Optically induced multi-particle structures: multi-dimensional energy landscapes. , 2008, , .		4
195	The electrodynamic mechanisms of optical binding. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
196	On the nanoscale transmission of quantum angular momentum. , 2010, , .		4
197	Optical superchirality and electromagnetic angular momentum. , 2012, , .		4
198	Quantum delocalization in photon-pair generation. <i>Physical Review A</i> , 2017, 96, .	2.5	4

#	ARTICLE	IF	CITATIONS
199	Introduction to Photon Science and Technology. , 2018, , .		4
200	Optical control and switching of excitation transfer in nano-arrays. , 2008, , .		3
201	Mechanisms for optical binding. Proceedings of SPIE, 2009, , .	0.8	3
202	Optical Control through Light Transmission. Optics and Photonics News, 2011, 22, 52.	0.5	3
203	Limitations and improvements upon the two-level approximation for molecular nonlinear optics. Proceedings of SPIE, 2011, , .	0.8	3
204	Assessing limitations to the two-level approximation in nonlinear optics for organic chromophores by ab initio methods. Proceedings of SPIE, 2011, , .	0.8	3
205	Structured light, transmission, and scattering. Proceedings of SPIE, 2011, , .	0.8	3
206	Optical binding with anisotropic particles: resolving the forces and torques. , 2011, , .		3
207	A new magneto-optical effect in Raman spectroscopy. Chemical Physics, 1987, 112, 61-65.	1.9	2
208	Synergistic photoabsorption: Range effectiveness of the cooperative and distributive mechanisms. Physical Review A, 1989, 40, 3431-3433.	2.5	2
209	Comment on 'Non-equilibrium thermodynamics of light absorption'. Journal of Physics A, 2000, 33, 1297-1299.	1.6	2
210	Nonlinearities in energy-harvesting media. , 2001, 4467, 297.		2
211	<title>Energy harvesting materials</title>. , 2002, 4806, 181.		2
212	Resonance damping and optical susceptibilities (Critical Review Lecture). , 2003, 5218, 181.		2
213	Transmission of quantum dot exciton spin states via resonance energy transfer. , 2005, , .		2
214	Adjacency matrix formulation of energy flow in dendrimeric polymers. , 2006, 6328, 179.		2
215	Atomic and Molecular Manipulation Using Structured Light. , 2008, , 169-194.		2
216	Configuring the cancellation of optical near-fields. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
217	Laser conferral of a directed character to near-field energy transfer. <i>Laser Physics</i> , 2009, 19, 125-128.	1.2	2
218	The analysis of fluorophore orientation by multiphoton fluorescence microscopy. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
219	Geometric configurations and perturbative mechanisms in optical binding. , 2010, , .		2
220	Optically Controlled Energy Transfer in Stacked and Coplanar Polycyclic Chromophores. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2705-2708.	4.6	2
221	Primary Photonic Processes in Energy Harvesting: Quantum Dynamical Analysis of Exciton Energy Transfer over Three-Dimensional Dendrimeric Geometries. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1325, 65.	0.1	2
222	Sculpting optical energy landscapes for multi-particle nanoscale assembly. , 2014, , .		2
223	Surface functionalized spherical nanoparticles: an optical assessment of local chirality. , 2015, , .		2
224	On the viability of achieving chiral separation through the optical manipulation of molecules. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
225	Symmetry analysis of Raman scattering mediated by neighboring molecules. <i>Journal of Chemical Physics</i> , 2016, 145, 184301.	3.0	2
226	Effects of Intrinsic Local Fields on Molecular Fluorescence and Energy Transfer: Dipole Mechanisms and Surface Potentials. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5015-5023.	2.6	2
227	Doppler-free multiphoton absorption in icosahedral molecules. <i>Chemical Physics Letters</i> , 1988, 146, 37-40.	2.6	1
228	Laser-induced molecular orientation effects in vibrational resonance-Raman spectroscopy. <i>Chemical Physics</i> , 1988, 122, 169-181.	1.9	1
229	Foundations of Molecular Harmonic Emission. , 0, , 1-25.		1
230	Nonlinear energy pooling in nanophotonic materials. , 2004, , .		1
231	Nanoparticle manipulation through inter-particle optical forces and torques. , 2005, 5930, 583.		1
232	Optical ordering of nanoparticles trapped by Laguerre-Gaussian laser modes. , 2006, , .		1
233	Energy migration in molecular assemblies: the characterisation and differentiation of two-photon mechanisms. , 2006, , .		1
234	The optical control of electronic energy transfer through single and dual auxiliary beams. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
235	Optically induced nanoparticle assemblies. Proceedings of SPIE, 2008, , .	0.8	1
236	The irreducible photon. Proceedings of SPIE, 2009, , .	0.8	1
237	Nonlinear optical techniques for improved data capture in fluorescence microscopy and imaging. Proceedings of SPIE, 2010, , .	0.8	1
238	Optical transistor action by nonlinear coupling of stimulated emission and coherent scattering. , 2010, , .		1
239	Controlling nanoscale optical emission with off-resonant laser light. Proceedings of SPIE, 2010, , .	0.8	1
240	Quantum electrodynamics, angular momentum and chirality. , 0, , 246-263.		1
241	Nanoarrays for the generation of complex optical wave-forms. , 2014, , .		1
242	Principles of vortex light generation from electronically excited nanoscale arrays. , 2014, , .		1
243	A spectroscopic ruler for intermediate-zone FRET measurements. Proceedings of SPIE, 2015, , .	0.8	1
244	Quantum issues with structured light. Proceedings of SPIE, 2016, , .	0.8	1
245	Chiral separation and twin-beam photonics. , 2016, , .		1
246	Quantum features of structured light. , 2021, , 77-93.		1
247	Conceptualization of the photon for quanta of structured light. , 2020, , .		1
248	Two-Photon Fluorescence Resonance Energy Transfer in Protein-Fluorophore Complexes. , 1998, , .		1
249	Electric-field-induced two-photon processes. Journal of Molecular Structure, 1988, 175, 135-140.	3.6	0
250	Second harmonic emission and the optical excitation of small particles. , 2000, 4098, 284.		0
251	Appendix 4: Irreducible Cartesian Tensors. , 0, , 205-208.		0
252	Nonlinear Optics and Surface Applications. , 2002, , 233-256.		0

#	ARTICLE	IF	CITATIONS
253	Radiation Constructs. , 0 , 39-51.		0
254	Incoherent Elastic Light Scattering. , 0 , 151-162.		0
255	Hyper-Raman Scattering. , 0 , 163-184.		0
256	Molecular Properties. , 0 , 53-78.		0
257	Coherent Harmonic Generation. , 0 , 97-108.		0
258	Coherent and Incoherent Signals. , 0 , 79-95.		0
259	Appendix 1: Resonance Damping. , 0 , 185-189.		0
260	Appendix 2: Rotational Averaging. , 0 , 191-199.		0
261	Appendix 3: Isotropic Tensors and the Euler Angle Matrix. , 0 , 201-203.		0
262	Appendix 5: Six-Wave Mixing and Secular Resonances. , 0 , 209-214.		0
263	Appendix 6: Spectroscopic Selection Rules. , 0 , 215-224.		0
264	Electronic coupling mechanisms and characteristics for optically nonlinear photoactive nanomaterials. , 2004 , ,		0
265	Directed energy transfer. , 2005 , ,		0
266	Near-field propagation in planar nanostructured arrays. , 2006 , ,		0
267	Optomechanical forces and electrostriction in laser optical materials. , 2006 , ,		0
268	All-optical switching based on optical control of energy transfer between thin-film layers. Proceedings of SPIE, 2008 , ,	0.8	0
269	London force and energy transportation between interfacial surfaces. , 2008 , ,		0
270	Resonance energy transfer and interface forces: quantum electrodynamical analysis. , 2008 , ,		0

#	ARTICLE	IF	CITATIONS
271	Optical binding between polar particles. Proceedings of SPIE, 2010, , .	0.8	0
272	Optomechanical control of molecular motors. , 2010, , .		0
273	Controlling the localization and migration of optical excitation. , 2012, , .		0
274	Near-field manipulation of interparticle forces through resonant absorption, optical binding, and dispersion forces. Proceedings of SPIE, 2013, , .	0.8	0
275	On the detection of characteristic optical emission from electronically coupled nanoemitters. , 2013, , .		0
276	Directions in optical angular momentum. Proceedings of SPIE, 2013, , .	0.8	0
277	Designing media for the local control of nanoscale absorption, transmission, and energy transfer. , 2014, , .		0
278	Second harmonic generation in isotropic media: six-wave mixing of optical vortices: erratum. Optics Express, 2014, 22, 17478.	3.4	0
279	Optical vortex mode generation by nanoarrays with a tailored geometry. Proceedings of SPIE, 2014, , .	0.8	0
280	Optical vortices in six-wave mixing. Proceedings of SPIE, 2014, , .	0.8	0
281	Engaging new dimensions in nonlinear optical spectroscopy using auxiliary beams of light. Proceedings of SPIE, 2014, , .	0.8	0
282	Medium-dependent resonance energy transfer: a controlling role for three-center upconversion. , 2014, , .		0
283	Mechanisms universally permitting hyper-Rayleigh scattering. Proceedings of SPIE, 2015, , .	0.8	0
284	Discriminatory effects in the optical binding of chiral nanoparticles. Proceedings of SPIE, 2015, , .	0.8	0
285	Advanced electrodynamic mechanisms for the nanoscale control of light by light. , 2015, , .		0
286	Quantum Physics of Light and Matter: A Modern Introduction to Photons, Atoms and Many-Body Systems, by Luca Salasnich. Contemporary Physics, 2015, 56, 483-483.	1.8	0
287	Laser Spectroscopy 1: Basic Principles & Laser Spectroscopy 2: Experimental Techniques (5th) Tj ETQq1 1 0.784314 rgBT ₀ /Overlock	1.8	0
288	Quantum theory for the nanoscale propagation of light through stacked thin film layers. Proceedings of SPIE, 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
289	On the emergence of Raman signals characterizing multicenter nanoscale interactions. , 2016, , .		0
290	Developments in the Photonic Theory of Fluorescence. Reviews in Fluorescence, 2016, , 235-268.	0.5	0
291	Hendrik Casimir. European Journal of Physics, 2001, 22, .	0.6	0
292	Quantum localization issues in nonlinear frequency conversion and harmonic generation. , 2017, , .		0
293	The engagement of optical angular momentum in nanoscale chirality. , 2017, , .		0
294	Chiroptical interactions between twisted light and chiral media. , 2018, , .		0
295	The angular momentum of twisted light in anisotropic media: chiroptical interactions in chiral and achiral materials. , 2018, , .		0
296	Spin-orbit coupling in vortex light: can it be revealed in fundamental electronic transitions?. , 2018, , .		0
297	Symmetry principles for engaging the orbital angular momentum of structured light. , 2018, , .		0
298	Optical spin-orbit interactions in molecular scattering of twisted light. , 2019, , .		0
299	Special Systems for Second Harmonic Generation. , 0, , 109-149.		0