

# CITATION REPORT

List of articles citing

## Third-order optical susceptibilities of liquids and solids

DOI: 10.1016/0079-6727(79)90002-8  
Progress in Quantum Electronics, 1977, 5, 1-68.

**Source:** <https://exaly.com/paper-pdf/13291063/citation-report.pdf>

**Version:** 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
585	Raman-Induced Kerr Effect. <b>1976</b> , 36, 189-192		158
584	Time resolved observation of resonant and non-resonant contributions to the nonlinear susceptibility ( $\chi^{(3)}$ ). <b>1978</b> , 26, 457-462		62
583	Ellipsa: a new technique for two-photon spectroscopy. <b>1978</b> , 59, 100-104		3
582	Nonlinear theory of degenerate four-wave mixing. <b>1979</b> , 34, 389-391		62
581	Measurements of uv two-photon absorption relative to known Raman cross sections. <b>1979</b> , 19, 5388-5395		23
580	High intensity Raman interactions. <i>Progress in Quantum Electronics</i> , <b>1979</b> , 6, 55-140	9.1	247
579	Background-free cars studies of carbon monoxide in a flame. <b>1979</b> , 30, 249-252		129
578	Effect of nonlinear index changes on degenerate four-wave mixing. <b>1979</b> , 35, 249-251		42
577	Nonlinear refractive index and light scattering due to fluctuations of molecular multipole electric fields. <b>1980</b> , 34, 367-374		10
576	Theory of electric field-induced optical second harmonic generation in semiconductors. <b>1980</b> , 12, 199-205		6
575	New directions in CARS diagnostics for combustion. <b>1980</b> ,		3
574	Coherence lengths and phase conjugation by degenerate four-wave mixing. <b>1980</b> , 51, 914-916		15
573	. <b>1980</b> , 16, 566-573		24
572	Double Resonance Excitation of Fluorescence in the Condensed Phase—An Alternative to Infrared, Raman, and Fluorescence Spectroscopy. <b>1980</b> , 34, 151-157		17
571	Orientalional and electronic contributions to the third-order susceptibilities of cryogenic liquids. <i>Journal of Chemical Physics</i> , <b>1980</b> , 73, 4951-4958	3.9	11
570	Near-zero-frequency stimulated Raman gain spectroscopy in CS(2). <b>1981</b> , 6, 193-5		35
569	Cascading in optical third-harmonic generation by crystalline quartz. <b>1981</b> , 24, 5522-5532		83

568	New results on ultrafast coherent excitation of molecular vibrations in liquids. <b>1981</b> , 26, 77-88		59
567	Stimulated emission enhanced polarization labelling. <b>1981</b> , 37, 178-182		11
566	Optical pulse chirp modification in degenerate four-wave mixing at finite pump powers. <b>1982</b> , 40, 930-932		2
565	COHERENT RAMAN SPECTROSCOPY. <b>1982</b> , 115-160		3
564	Phase Conjugation by Degenerate Four-wave Mixing a General Two-dimensional Theory. <b>1982</b> , 29, 1041-1047		5
563	Third-order optical susceptibility of glasses determined by third harmonic generation. <b>1982</b> , 21, 3221-4		99
562	Observation of intensity-induced nonreciprocity in a fiber-optic gyroscope. <b>1982</b> , 7, 457-9		47
561	Perturbative analysis of self-oscillation in degenerate four-wave mixing. <b>1982</b> , 7, 614-6		3
560	Guided wave approaches to optical bistability. <b>1982</b> , 18, 1610-1619		91
559	Coherent and hyper-raman techniques. <i>Topics in Applied Physics</i> , <b>1982</b> , 207-244	0.5	6
558	Intensity Dependent Nonreciprocal Phase Shift in a Fiberoptic Gyroscope. <i>Springer Series in Optical Sciences</i> , <b>1982</b> , 332-336	0.5	11
557	Guided Wave Approaches to Optical Bistability. <b>1982</b> , 30, 1598-1607		9
556	Local field cascading in third-order non-linear optical phenomena of liquids. <b>1982</b> , 92, 165-171		20
555	Measurement of third-order nonlinear susceptibilities by non-phase matched third-harmonic generation. <b>1983</b> , 32, 137-143		49
554	Optical Kerr effect in carbon diselenide. <b>1983</b> , 94, 494-497		2
553	Time character of phase-conjugate reconstructed waves. <b>1983</b> , 8, 67-9		17
552	Coherent phenomena involved in the time-resolved optical Kerr effect. <b>1983</b> , 19, 713-718		45
551	Optical power limiter with picosecond response time. <b>1983</b> , 19, 731-735		84

550	Optical Phase Conjugation Using Three-Wave and Four-Wave Mixing via Elastic Photon Scattering in Transparent Media. <b>1983</b> , 23-78		3
549	Third-order optical susceptibility determination by third harmonic generation. I. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 1533-1542	3.9	156
548	Third-order susceptibility determination by third harmonic generation. II. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 1543-1551	3.9	69
547	Picosecond Damage Studies At 0.5 And 1 $\mu\text{m}$ . <b>1983</b> , 22, 424		7
546	SELF-ACTION EFFECTS AND DEGENERATE FOUR-WAVE MIXING. <b>1984</b> , 327-418		1
545	Quantum-theoretical description of coherent four-wave mixing. <b>1984</b> , 29, 2700-2708		7
544	In-crystal hyperpolarizabilities of $\text{Fe}^{2+}$ and $\text{Cl}^{-}$ . <b>1984</b> , 30, 6131-6135		51
543	Microscopic dynamics in simple liquids by subpicosecond birefringences. <b>1984</b> , 29, 271-274		46
542	The physics of phase conjugate mirrors. <i>Progress in Quantum Electronics</i> , <b>1984</b> , 9, 101-147	9.1	11
541	A complete expression for the third-order susceptibility ( $\chi^{(3)}$ ) - Perturbative and diagrammatic approaches. <b>1984</b> , 20, 37-42		97
540	Direct measurement of the nonlinear refractive-index coefficient $\gamma$ at 355 nm in fused silica and in BK-10 glass. <b>1984</b> , 9, 10-2		12
539	Nonlinear refractive-index phenomena in isotropic media subjected to a dc electric field: Exact solutions. <b>1984</b> , 29, 1944-1956		51
538	Large signal analysis of phase variations and bistability in degenerate four-wave mixing. <b>1985</b> , 17, 149-152		6
537	Ultrafast laser spectroscopy: A probe of the photodynamics of chemical intermediates. <b>1985</b> , 6, 197-235		3
536	Nonlinear Optical Phase Conjugation. <b>1985</b> , 333-485		18
535	References. <b>1985</b> , 348-352		
534	Third-harmonic generation in liquids. <b>1985</b> , 32, 2352-2363		266
533	Measurement of resonant and nonresonant third-order nonlinear susceptibilities by coherent Raman spectroscopy. <b>1985</b> , 32, 281-299		36

532	The mechanism and dynamics of transient thermal grating diffraction in nematic liquid crystal films. <b>1985</b> , 21, 329-335		90
531	Linear and nonlinear response functions for an exact state and for an MCSCF state. <i>Journal of Chemical Physics</i> , <b>1985</b> , 82, 3235-3264	3.9	943
530	Deviations from Kleinman symmetry measured for several simple atoms and molecules. <b>1985</b> , 31, 3145-3154		64
529	Third-order electronic susceptibilities of liquids measured by femtosecond kinetics of optical Kerr effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1985</b> , 2, 649	1.7	23
528	Phase-modulated stimulated Raman spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1985</b> , 2, 1485	1.7	6
527	Surface-mediated enhancement of optical phase conjugation in metal colloids. <b>1985</b> , 10, 511-3		497
526	Dispersion of the electronic contribution to the third-order nonlinear susceptibility of H <sub>2</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1986</b> , 3, 1251	1.7	22
525	Variations of polarization of an intense optical wave in absorbing liquids in the presence of a dc electric field. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1986</b> , 3, 1305	1.7	3
524	The spatial symmetry of the third-order susceptibility tensor. <b>1986</b> , 22, 1012-1012		4
523	Tunable-laser-induced gratings for the measurement of ultrafast phenomena. <b>1986</b> , 22, 1413-1430		44
522	Degenerate four-wave mixing in the isotropic phase of liquid crystals: The influence of molecular structure. <b>1986</b> , 22, 1287-1297		18
521	New exact solutions and bifurcations in the spatial distribution of polarization in third-order nonlinear optical interactions. <b>1986</b> , 56, 600-603		79
520	Measurement of the Nonlinear Susceptibility of Liquid Crystal Materials in the Isotropic Phase. <b>1986</b> , 33, 405-417		3
519	Evolution of the polarization state of an intense optical wave in uniaxial crystals. <b>1986</b> , 34, 351-359		3
518	Intramolecular and intermolecular dynamics in molecular liquids through femtosecond time-resolved impulsive stimulated scattering. <b>1987</b> , 22, 1717-1734		65
517	Subpicosecond molecular dynamics studied by degenerate four-wave mixing with incoherent light. <b>1987</b> , 36, 1298-1304		41
516	Hyperpolarizabilities of alkali halide crystals using the local-density approximation. <b>1987</b> , 36, 9202-9211		68
515	Quadratic Electro-Optical Characterization of Molecular Nonlinear optical Materials. <b>1987</b> , 109, 251		2

514	Resonant Molecular Optics. <b>1987</b> , 159-212		13
513	Nonlinear refractive-index measurements of glasses using three-wave frequency mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1987</b> , 4, 875	1.7	197
512	Pump-intensity-dependent frequency shift in Stokes and anti-Stokes spectra generated by stimulated four-photon mixing in birefringent fiber. <b>1987</b> , 26, 2974-8		20
511	The spatial symmetric forms of third-order nonlinear susceptibility. <b>1987</b> , 23, 177-179		23
510	An ab initio study of third-order non-linear optical properties of H+ 2. <b>1987</b> , 62, 721-734		9
509	Second-harmonic generation in centro-symmetric media. <b>1987</b> , 44, 5-10		28
508	Polarization selectivity in time-resolved transient phase grating. <b>1987</b> , 63, 329-334		114
507	Multimode stimulated raman scattering in fuel droplets. <b>1988</b> , 151, 161-165		17
506	The application of incoherent light for the study of femtosecond-picosecond relaxation in condensed phase. <b>1988</b> , 47, 107-125		96
505	Surface structure of cubic ionic crystals studied by optical second-harmonic generation. <b>1988</b> , 46, 131-138		24
504	The optical kerr effect in small metal particles and metal colloids: The case of gold. <b>1988</b> , 47, 347-357		463
503	Femtosecond molecular motions and implications for electron solvation dynamics in liquids. <b>1988</b> , 32, 573-578		
502	Time-delayed Three-wave Mixing of Nanosecond Incoherent Laser Beams for Measuring Short Relaxation Times. <b>1988</b> , 35, 1933-1937		14
501	Power-dependent polarization of optical pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1988</b> , 5, 403	1.7	38
500	. <b>1988</b> , 24, 443-454		489
499	. <b>1988</b> , 24, 1893-1907		
498	Studies of Raman-induced phase conjugation in benzene derivatives. <b>1988</b> , 38, 222-232		2
497	Femtosecond Dynamics of Molecular Motions by Transient Grating Experiments. <i>Physica Scripta</i> , <b>1988</b> , T23, 191-193	2.6	4

496	Hyperpolarizability dependent dispersion forces and absorption spectra in simple liquids. <b>1988</b> , 65, 263-278		13
495	Laser-Induced Damage And The Role Of Self-Focusing. <b>1989</b> , 28, 1133		64
494	Nonlinear index of air at 1.053 microm. <b>1989</b> , 39, 3003-3009		20
493	Resolution of the nuclear and electronic contributions to the optical nonlinearity in polysilanes. <b>1989</b> , 54, 1713-1715		53
492	Anisotropic reorientational relaxation of biphenyl: Transient grating optical Kerr effect measurements. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 6893-6902	3.9	97
491	Temporal and spectral effects of cross-phase modulation on copropagating ultrashort pulses in optical fibers. <b>1989</b> , 40, 5063-5072		95
490	Analysis of complex molecular dynamics in an organic liquid by polarization selective subpicosecond transient grating experiments. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 2269-2279	3.9	122
489	Anisotropic hyperpolarizabilities in alkali halide crystals. <b>1989</b> , 39, 10275-10280		6
488	Spectral and temporal measurements of the third-order nonlinear susceptibility of LiNbO <sub>3</sub> using picosecond Raman-induced phase-conjugation spectroscopy. <b>1989</b> , 40, 1885-1891		6
487	Quenching of stimulated Raman scattering by two-photon absorption in fuels. <b>1989</b> , 20, 805-812		5
486	Degenerate four-wave mixing experiments on polyacene quinones. <b>1989</b> , 154, 193-198		9
485	Molecular dynamics simulation study of nonlinear optical response of fluids. <b>1989</b> , 159, 413-420		92
484	Polarization effects in femtosecond time-resolved coherent scattering from molecules in liquids. <b>1989</b> , 49, 425-429		21
483	Measurement of $\chi^{(3)}$ and phase shift of nonlinear media by means of a phase-conjugate interferometer. <b>1989</b> , 14, 183-5		27
482	Polarization-dependent and intensity-dependent phase mismatch of second-harmonic generation in optical fibers. <b>1989</b> , 14, 964-6		18
481	Polarization-resolved optical phase conjugation in an artificial anisotropic Kerr medium. <b>1989</b> , 14, 1356-8		5
480	Frequency dependence of the optical Kerr effect and third-order electronic nonlinear-optical processes of organic liquids. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1989</b> , 6, 154	1.7	14
479	Composite structures for the enhancement of nonlinear-optical susceptibility. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1989</b> , 6, 787	1.7	393

478	Analysis of dephasing signal in picosecond stimulated-Raman-gain experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1989</b> , 6, 2376	1.7	3
477	The third-order Raman spectrum of argon pairs. <b>1989</b> , 66, 221-234		1
476	Large Cubic Nonlinear Optical Properties of Organic Semiconductor Superlattices. <b>1989</b> , 173, 595		3
475	Non Linear Effects For Light Generation And Amplification In Optical Fibers.. <b>1990</b> ,		1
474	Comment on Anisotropic reorientational relaxation in biphenyl: Transient grating optical Kerr effect measurements <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 2160-2162	3.9	5
473	Raman induced phase conjugation spectroscopy. <b>1990</b> , 102, 565-574		
472	The frequency response of condensed-phase media to femtosecond optical pulses: spectral-filter effects. <b>1990</b> , 174, 85-94		134
471	Optical dispersive bistability in media with forced girotropy. <b>1990</b> , 22, 131-142		4
470	Optical phase conjugation through translational and rotational diffusive rearrangements of liquid-dispersed microparticles. <b>1990</b> , 41, 2882-2885		12
469	Optically heterodyned polarization spectroscopy. Measurement of the orientational correlation function. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 4055-4066	3.9	58
468	Polarization instabilities of dark and bright coupled solitary waves in birefringent optical fibers. <b>1990</b> , 41, 6415-6424		24
467	Nonlinear optical response in condensed phases: A microscopic theory using the multipolar Hamiltonian. <b>1990</b> , 41, 3812-3821		20
466	Indices governing optical self-focusing and self-induced changes in the state of polarization in N <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> , and Ar gases. <b>1990</b> , 41, 2766-2777		22
465	Large third-order optical nonlinearities in organic polymer superlattices. <b>1990</b> , 57, 126-128		74
464	Frequency-domain observation of the ultrafast inertial response of the optical Kerr effect in CS <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 4740-4748	3.9	24
463	A Generalized Scalar Formulation Of Nonlinear Pulse Propagation In Single-mode Fibers. <b>1990</b> ,		
462	Characteristics of picosecond coherent anti-Stokes Raman spectroscopy with mode-locked dye lasers in comparison with stimulated Raman gain. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1990</b> , 7, 726	1.7	
461	Bond-orbital theory of linear and nonlinear electronic response in ionic crystals. II. Nonlinear response. <b>1990</b> , 41, 3383-3390		77



460	Pulse shaping and coherent Raman spectroscopy in condensed phases. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 997-1005	3.9	54
459	Synthesis and characterization of carbazole polymers exhibiting large nonlinear absorption and refractive index. <b>1991</b> , 43, 3203-3207		1
458	Picosecond third-order nonlinear optical susceptibility in nematic liquid crystals. <b>1991</b> , 70, 5125-5127		4
457	Raman effect in birefringent optical fibers. <b>1991</b> , 16, 566-8		38
456	Spatial-soliton-induced guided waves in a homogeneous nonlinear Kerr medium. <b>1991</b> , 16, 793-5		107
455	Numerical study of the Raman effect and its impact on soliton-dragging logic gates. <b>1991</b> , 16, 1647-9		20
454	Numerical analysis of the Raman spectrum evolution and soliton pulse generation in single-mode fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1991</b> , 8, 1626	1.7	31
453	Dispersion measurements of electric-field-induced second-harmonic generation and third-harmonic generation in conjugated linear chains. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1991</b> , 8, 2132	1.7	60
452	Ultrafast optical Kerr dynamics studied with incoherent light. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 3332-3346	3.9	84
451	Large nonresonant third-order hyperpolarizabilities of organic charge-transfer complexes. <b>1991</b> , 59, 381-383		19
450	Transient gratings, four-wave mixing and polariton effects in nonlinear optics. <b>1991</b> , 205, 1-58		63
449	Measurement of magnitude and sign of the third order nonlinear susceptibility in lead molybdate crystal. <b>1991</b> , 84, 189-192		6
448	Separation of nuclear and electronic contributions to femtosecond four-wave mixing data. <b>1991</b> , 86, 236-244		107
447	Third-harmonic generation from all-trans $\beta$ -carotene in liquid solution. <b>1991</b> , 187, 269-276		16
446	Dephasing and relaxation in coherently excited ensembles of intermolecular oscillators. <b>1991</b> , 178, 69-74		74
445	Measurement of Third Order Hyperpolarizability of Some Dyes. <b>1991</b> , 8, 562-565		1
444	Effect of thermal spin-wave fluctuations on optical guided waves propagating in a magnetic film. <b>1991</b> , 43, 13656-13659		
443	Stochastic theory of time-resolved four-wave mixing in interacting media. <b>1991</b> , 44, 2124-2129		68

442	Time resolved stimulated light scattering from a solvated chromophore: A molecular dynamics study. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 7575-7587	3.9	21
441	Discharge-plasma-x-ray-laser resonant couples for x-ray nonlinear optics. <b>1991</b> , 44, 6951-6953		4
440	.		
439	The grating decomposition method: A new approach for understanding polarization-selective transient grating experiments. I. Theory. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 69-77	3.9	49
438	The grating decomposition method: A new approach for understanding polarization-selective transient grating experiments. II. Applications. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 78-85	3.9	14
437	Nonresonant third-order optical nonlinearity of all-carbon molecules C <sub>60</sub> . <b>1992</b> , 71, 3025-3026		93
436	Femtosecond Electronic and Nuclear Dynamics in Nonlinear Optical Glasses. <b>1992</b> , 293, 437		3
435	Non-linear optical response to strong applied electromagnetic fields in polyconjugated materials. <b>1992</b> , 51, 135-146		30
434	Resonance-enhanced time-resolved optical Kerr effect of beta-carotene in solution. <b>1992</b> , 17, 775-7		8
433	The Intensity-Dependent Refractive Index. <b>1992</b> , 159-190		13
432	The Nonlinear Optical Susceptibility. <b>1992</b> , 1-55		120
431	Third order nonlinear optical properties of some organic nitroxyls. <b>1992</b> , 54, 181-183		1
430	Relaxation contribution to hyperpolarizability. A semiclassical model. <b>1992</b> , 82, 13-17		78
429	Polarization interference in femtosecond CARS. <b>1992</b> , 94, 300-308		27
428	Measurement of the third-order non-resonant susceptibility of phthalate ion in solution and in a C <sub>6</sub> H <sub>4</sub> COOH□□COOK crystal. <b>1992</b> , 53, 541-545		2
427	Phonon relaxation in molecular crystals: Theory and experiments. <b>1992</b> , 15, 1-82		14
426	Intramolecular vibrational activity and quantum beats in the Raman-induced optical Kerr effect of liquids under impulsive electric exciations. <b>1992</b> , 164, 57-71		5
425	. <b>1992</b> , 40, 1780-1788		4

424	Molecular dynamics of $\beta$ -carotene in solution measured by subpicosecond transient optical Kerr effect. <b>1992</b> , 193, 23-29		17
423	Pre-transitional effects in the liquid $\beta$ lastic phase transition of p-terphenyl. <b>1993</b> , 212, 90-95		16
422	Property tensors and tensorial covariants of classical point groups. Applications to Raman effects of higher order and other problems. <b>1993</b> , 24, 833-844		2
421	Femtosecond optical processes in Durham polyacetylene and norbornylene $\beta$ polyacetylene copolymer. <b>1993</b> , 172, 363-376		10
420	Linear and Nonlinear Optical Properties of TeO <sub>2</sub> Glass. <b>1993</b> , 76, 2486-2490		211
419	Nonlinear Optical Properties of TeO <sub>2</sub> -Based Glasses: La <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> Binary Glasses. <b>1993</b> , 76, 865-869		64
418	Ultrafast optical kerr effect in liquids and solids. <b>1993</b> , 262, 1386-90		173
417	Image transfer using six-wave mixing with large-wavelength conversion. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1993</b> , 10, 454	1.7	4
416	Relationship between coherent acoustic wave generation and a coherence spike in an impulsive stimulated Brillouin scattering experiment. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1993</b> , 10, 1017	1.7	4
415	Nuclear contribution to hyperpolarizability of polyconjugated compounds: role of vibrational intensities. <b>1993</b> , 57, 3919-3926		27
414	Orientalional dynamics on glassformer 2 [Ca(NO <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> [KNO <sub>3</sub> ]: A study by transient optical Kerr effect. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 4892-4896	3.9	15
413	Simulation of the intermolecular vibrational spectra of liquid water and water clusters. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 4413-4421	3.9	155
412	Simulation Study of Phase-Shift Dependence of the Phase Conjugate Wave Intensity in a Photorefractive Medium. <b>1993</b> , 32, 4300-4302		1
411	Real-time path-integral approach to quantum coherence and dephasing in nonadiabatic transitions and nonlinear optical response. <b>1993</b> , 47, 118-136		108
410	Two-dimensional femtosecond vibrational spectroscopy of liquids. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 9496-9511	3.9	515
409	Third-order optical nonlinearity of C <sub>60</sub> , C <sub>70</sub> , and CS <sub>2</sub> in benzene at 1.06 microm. <b>1993</b> , 48, 8404-8408		35
408	Asymmetric line shapes and time-resolved measurements: Vibrons in alpha -Arx(N <sub>2</sub> ) <sub>1-x</sub> mixed crystals. <b>1993</b> , 47, 14565-14567		4
407	Off-resonant transient birefringence in liquids. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 2410-2428	3.9	231

406	Third-order optical nonlinearities of new two-dimensional pi-conjugated metal-coordinated complexes. <b>1994</b> , 27, 911-913		16
405	Semiclassical Green function calculation of four wave mixing in polarizable clusters and liquids. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 7388-7398	3.9	17
404	Aspects of impulsive stimulated scattering in molecular systems. <b>1994</b> , 50, 763-778		10
403	Optical bistability. <i>Progress in Quantum Electronics</i> , <b>1994</b> , 18, 1-38	9.1	19
402	Near-infrared continuum generation with upconversion into the visible in SiO(2) single-mode fiber. <b>1994</b> , 19, 1955-7		3
401	Femtosecond polarization spectroscopy: A density matrix description. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 1823-1839	3.9	64
400	Measurement of the Excited-State Molecular Polarizability of C60. <b>1994</b> , 359, 511		
399	Direct comparison between femtosecond optical Kerr effect and high-resolution light scattering measurements. <b>1995</b> , 83, 413-416		
398	Metallorganische Verbindungen für die nichtlineare Optik – ein Hoffungsstreif am Horizont. <b>1995</b> , 107, 37-56		130
397	Intermolecular vibrational coherence in molecular liquids. <b>1995</b> , 26, 571-583		167
396	Direct comparison of femtosecond Fourier-transform Raman spectrum with spontaneous light scattering spectrum. <b>1995</b> , 236, 259-264		44
395	Direct comparison between femtosecond optical Kerr effect and high-resolution light scattering measurements. <i>Journal of Molecular Liquids</i> , <b>1995</b> , 65-66, 413-416	6	18
394	Electronic and Raman-type nonlinearities of thin films of oligomeric paraphenylene vinylenes. <b>1995</b> , 199, 65-72		4
393	The wave-mixing near field optics amplifier: a theoretical feasibility study for non-linear NFO experiments in biology, chemistry and materials science. <b>1995</b> , 61, 69-80		18
392	Low-frequency phonon structures in disordered systems probed by femtosecond nonlinear spectroscopy. <b>1995</b> , 66-67, 375-378		
391	Interaction-induced contributions to polarizability anisotropy relaxation in polar liquids. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 6325-6332	3.9	88
390	Photon echoes in impulsive optical spectroscopy of phonons. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 2365-2371	3.9	47
389	Molecular dynamics of $\beta$ -carotene in solution by resonance enhanced optical Kerr effect. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 9537-9543	3.9	9

388	Orientalional processes in liquid nitromethane studied by depolarized light scattering and transient optical Kerr effect. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 8763-8772	3.9	22
387	Vibrational quantum beats observed by Raman-induced optical Kerr effect. <b>1995</b> , 86, 1249-1269		4
386	Orientalional Dynamics in the Isotropic Phase of a Nematic Mixture: Subpicosecond Time Resolved Optical Kerr Effect Experiments on ZLI-1167 Liquid Crystal. <b>1995</b> , 262, 391-402		20
385	Ultrafast transient Kerr lens in solution detected by the dual-beam thermal-lens method. <b>1995</b> , 20, 25-7		48
384	Ultrashort-pulse measurement using noninstantaneous nonlinearities: Raman effects in frequency-resolved optical gating. <b>1995</b> , 20, 486-8		34
383	Phase conjugation by cascaded second-order nonlinear-optical processes. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 43	1.7	21
382	Pulse generation in birefringent optical fibers by four-wave mixing and Raman scattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1279	1.7	7
381	Rapid-scan pump-probe spectroscopy with high time and wave-number resolution: optical-Kerr-effect measurements of neat liquids. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1500	1.7	30
380	Direct comparison between ultrafast optical Kerr effect and high-resolution light scattering spectroscopy. <b>1995</b> , 75, 148-151		107
379	Excited-state enhancement of third-order nonlinear optical responses in conjugated organic chains. <b>1995</b> , 51, 3234-3245		31
378	Primary Ultrafast Events in the Proton Transfer Reaction from Excited Pyranine to Water. <i>Springer Series in Chemical Physics</i> , <b>1996</b> , 272-273	0.3	
377	Time resolved four- and six-wave mixing in liquids. I. Theory. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 7364-7382	3.9	142
376	Four-wave-mixing interferometer. <b>1996</b> , 21, 1108-10		3
375	Nonlinear-optical Christiansen filter as an optical power limiter. <b>1996</b> , 21, 1643-5		18
374	The transient optical Kerr effect of simple liquids studied with an ultrashort laser with variable pulsewidth. <b>1996</b> , 2, 756-768		15
373	Mechanism of Organosilane Self-Assembled Monolayer Formation on Silica Studied by Second-Harmonic Generation. <b>1996</b> , 100, 11014-11018		59
372	Intermolecular spectral densities of liquids: A quantitative comparison of time-domain and frequency-domain techniques. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 962-966	3.9	28
371	Measurement of the resonant third-order nonlinear susceptibility of C60 by nondegenerate four-wave mixing. <b>1996</b> , 249, 105-111		55

370	A peculiar interference phenomenon observed in femtosecond optical Kerr effect spectroscopy for nearly transparent materials. <b>1996</b> , 257, 303-308		5
369	Low-frequency phonon structures in disordered systems probed by femtosecond spectroscopy. <b>1996</b> , 219-220, 374-376		2
368	Third-order nonlinear optical properties of phthalocyanines in solution and in polystyrene films. <i>Optical Materials</i> , <b>1996</b> , 5, 43-55	3.3	10
367	Multiplex CARS spectroscopy of Rochelle salt crystal. <b>1996</b> , 382, 33-37		6
366	Femtosecond optical Kerr study of heavy atom effects on the third-order optical nonlinearity of thiophene homologues: purely electronic contribution. <b>1996</b> , 263, 215-222		41
365	Unified time-path approach to the effect of anharmonicity on the molecular vibrational spectroscopy in solution. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 7294-7309	3.9	29
364	Orientalional correlation functions and polarization selectivity for nonlinear spectroscopy of isotropic media. II. Fifth order. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 13-21	3.9	50
363	Femtosecond two-dimensional spectroscopy of molecular motion in liquids. <b>1996</b> , 76, 1224-1227		130
362	Ultrafast rise of translational temperature after photoexcitation to electronic excited state in solution: Transient lens study of Ni <sup>2+</sup> aqueous solution. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 6587-6593	3.9	36
361	Orientalional correlation functions and polarization selectivity for nonlinear spectroscopy of isotropic media. I. Third order. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 1-12	3.9	166
360	Third- and fifth-harmonic generation at the interfaces of glass and liquids. <b>1996</b> , 54, 5454-5457		22
359	Contributions of rotation and translation to polarizability anisotropy and solvation dynamics in acetonitrile. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 1552-1561	3.9	96
358	Complete Determination of Intermolecular Spectral Densities of Liquids Using Position-Sensitive Kerr Lens Spectroscopy. <b>1996</b> , 100, 8613-8616		36
357	Femtosecond Optical Pulse Compressor Using CS <sub>2</sub> Liquid-Core Fiber with Negative Delayed Nonlinear Response. <b>1997</b> , 36, 6768-6774		4
356	Dispersion of Ultrafast Optical Kerr Effect in No-aggregation Phthalocyanine Molecules. <b>1997</b> , 14, 96-99		2
355	First-, third-, and fifth-order resonant spectroscopy of an anharmonic displaced oscillators system in the condensed phase. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 2078-2095	3.9	50
354	Study on Ultrafast Dynamic Behaviors of Different Nonlinear Refractive Index Components in CS <sub>2</sub> Using a Femtosecond Interferometer. <b>1997</b> , 36, 2109-2115		21
353	Third order nonlinear response of liquid water. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 4889-4893	3.9	58

352	Wigner spectrogram representations of heterodyne-detected four-wave-mixing and fluorescence up-conversion. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 4165-4171	3.9	36
351	Polarization selectivity of nonresonant spectroscopies in isotropic media. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 9726-9740	3.9	73
350	Relaxation Dynamics of Water and HCl Aqueous Solutions Measured by Time-Resolved Optical Kerr Effect. <b>1997</b> , 101, 7029-7035		34
349	Electronic Coherence and Collective Optical Excitations of Conjugated Molecules. <b>1997</b> , 277, 781-787		315
348	Polarization switching of stimulated Raman scattering in optical fibers by dual-frequency pumping. <b>1997</b> , 22, 1595-7		9
347	Phase-mismatched degenerate four-wave mixing: complex third-order susceptibility tensor elements of C <sub>60</sub> at 768 nm. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 92	1.7	39
346	Determination of the inertial contribution to the nonlinear refractive index of air, N <sub>2</sub> , and O <sub>2</sub> by use of unfocused high-intensity femtosecond laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 650	1.7	261
345	Influence of transverse effects on self-induced polarization changes in an isotropic Kerr medium. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 1118	1.7	10
344	Increase and saturation of the third order hyperpolarizabilities in homologous series of symmetric cyanines. <b>1997</b> , 216, 337-347		20
343	Isotropic and anisotropic intermolecular dynamics of liquids studied by femtosecond position-sensitive Kerr lens spectroscopy. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 8639-8649	3.9	25
342	Third order nonlinear optical properties of bacteriochlorophylls in bacterial photosynthetic light-harvesting proteins. <b>1997</b> , 270, 255-262		13
341	Enhanced nonlinear optical response of an endohedral metallofullerene through metal-to-cage charge transfer. <b>1998</b> , 72, 2788-2790		36
340	Some recent developments of high-order response theory. <b>1998</b> , 70, 219-239		30
339	Fifth-order two-dimensional vibrational spectroscopy of a Morse potential system in condensed phases. <b>1998</b> , 233, 217-229		51
338	Progress toward a better understanding of signal generation in laser-excited photothermal spectrometry of homogeneous samples. <b>1998</b> , 17, 520-532		7
337	Femtosecond Optical Kerr Effect in the Gold Nanoparticle System. <b>1998</b> , 37, L1520-L1522		21
336	Influence of parametric four-wave mixing effects on stimulated Raman scattering in bimodal optical fibers. <b>1998</b> , 23, 1456-8		8
335	Alternation and saturation effects in the chain-length dependences of the third-order hyperpolarizabilities of cyanines. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 863	1.7	8

334	Polarization switching and suppression of stimulated Raman scattering in birefringent optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 1433	1.7	31
333	Microscopic Origin of the Optical Kerr Effect Response of CS <sub>2</sub> /Pentane Binary Mixtures. <b>1998</b> , 102, 4213-4221		61
332	Nonlinear Optics of Bound Electrons in Solids. <b>1998</b> , 205-224		1
331	Time- and frequency-resolved coherent two-dimensional IR spectroscopy: Its complementary relationship with the coherent two-dimensional Raman scattering spectroscopy. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 10559-10569	3.9	41
330	Solute-solvent interaction dynamics studied by photon echo spectroscopies in polymer glasses. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 6175-6183	3.9	54
329	Multidimensional femtosecond spectroscopies of vibrational motions in liquids: Semiclassical expansion. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 5812-5825	3.9	70
328	Molecular dynamics of thiophene homologues investigated by femtosecond optical Kerr effect and low frequency Raman scattering spectroscopies. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 10948-10957	3.9	23
327	Raman self-conversion of femtosecond laser pulses and generation of single-cycle radiation. <b>1998</b> , 58, R61-R64		43
326	Dielectric and optical properties of pure liquids by means of ab initio reaction field theory. <b>1998</b> , 57, 4778-4785		15
325	Time-resolved optical Kerr effect in a fragile glass-forming liquid, salol. <b>1998</b> , 57, 1912-1920		51
324	Nonlinear Effects in Optical Fiber Transmission System. <b>1999</b> , 16, 461-479		4
323	Nonlinear optical properties of TeO <sub>2</sub> -based glasses: Li(Na and K) <sub>2</sub> O-TeO <sub>2</sub> binary glasses. <b>1999</b> , 14, 1074-1083		19
322	Nonlocal Contributions to Degenerate Four-Wave Mixing in Noncentrosymmetric Materials. <b>1999</b> , 82, 193-196		27
321	Fifth-order two-dimensional Raman spectra of CS <sub>2</sub> are dominated by third-order cascades. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 3105-3114	3.9	189
320	Femtosecond spectroscopy of condensed phases with chirped supercontinuum probing. <b>1999</b> , 59, 2369-2384		401
319	Pressure and power dependence of the optically heterodyne Raman-induced Kerr effect line shape. <b>1999</b> , 59, 4045-4051		5
318	Ultrafast exciton and excited-exciton dynamics in J-aggregates of three-level porphyrin molecules. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 5844-5850	3.9	55
317	Theoretical description of the vibrational echo spectroscopy by time-resolved infrared-infrared-visible difference-frequency generation. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 10587-10594	3.9	13



316	Third-order susceptibilities of asymmetric pentaazadentate porphyrin-like metal complexes. <b>1999</b> , 74, 3254-3256		22
315	STUDIES OF SOME PECULIARITIES OF NONLINEAR DYNAMICS OF FOUR-WAVE MIXING OF LIGHT WAVES PROPAGATING FORWARD IN LIQUID CRYSTAL ON THERMAL NONLINEARITY. <b>1999</b> , 08, 403-418		
314	Suppression of stimulated Raman scattering in optical fibres by power-controlled multifrequency pumping. <b>1999</b> , 159, 32-36		3
313	Origin of initial rise process of ultrafast exponential response in liquids. <b>1999</b> , 301, 183-188		22
312	Solid state <sup>13</sup> C NMR and optical non-linearities study of C60 trimethylenediamine adducts. <b>1999</b> , 300, 385-391		5
311	Terahertz-field-induced second-harmonic generation measurements of liquid dynamics. <b>1999</b> , 309, 221-228		81
310	Dispersed ultrafast nonresonant electronic responses: detuning oscillations and near resonance effects. <b>1999</b> , 314, 73-82		11
309	Mechanism of a Terahertz Optical Kerr Shutter with a Gold Nanoparticle System. <b>1999</b> , 68, 3810-3812		27
308	Investigation of transient nonlinear optical mechanisms using a variable pulselength laser. <b>1999</b> , 35, 187-197		2
307	Femtosecond Heterodyne-Detected Four-Wave-Mixing Studies of Deterministic Protein Motions. 2. Protein Response. <b>1999</b> , 103, 10630-10643		45
306	Studies of optical non-linearities of chalcogenide and heavy-metal oxide glasses. <b>1999</b> , 256-257, 310-317		42
305	Two-Dimensional Raman Echoes: Femtosecond View of Molecular Structure and Vibrational Coherence. <b>1999</b> , 32, 145-154		128
304	Order-of-magnitude estimates of the nonlinear optical susceptibility. <b>1999</b> , 46, 367-378		58
303	Refractive Indices of Molecules in Vapor and Liquid: Calculations on Benzene. <b>1999</b> , 103, 8447-8457		3
302	Demonstration of stimulated-Raman-scattering suppression in optical fibers in a multifrequency pumping configuration. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 757	1.7	10
301	Raman-assisted parametric frequency conversion in a normally dispersive single-mode fiber. <b>1999</b> , 24, 1561-3		35
300	Femtosecond Heterodyne-Detected Four-Wave-Mixing Studies of Deterministic Protein Motions. 1. Theory and Experimental Technique of Diffractive Optics-Based Spectroscopy. <b>1999</b> , 103, 10619-10629		38
299	Measurement of non-instantaneous contribution to the $\beta$ in different liquids using femtosecond chirped pulses. <b>2000</b> , 176, 459-472		6

298	Observation of low-frequency Raman and Kerr effect contributions in picosecond infrared pump probe experiments. <b>2000</b> , 23, 219-230		22
297	Non-instantaneous Nonlinearities. <b>2000</b> , 331-336		
296	Wavelength conversion from 1.3 $\mu\text{m}$ to 1.5 $\mu\text{m}$ in single-mode optical fibres using Raman-assisted three-wave mixing. <b>2000</b> , 2, 132-141		4
295	A new third-order nonlinear optical process. <b>2000</b> , TuB5		
294	Theory of four-wave mixing of matter waves from a Bose-Einstein condensate. <b>2000</b> , 62,		83
293	Efficient optical Kerr shutter for femtosecond time-resolved luminescence spectroscopy. <b>2000</b> , 71, 3317-3322		47
292	Two-dimensional vibrational spectroscopy. VI. Higher-order contributions to the two-dimensional vibrational response functions. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 10496-10509	3.9	12
291	Two-dimensional vibrational spectroscopy. V. Novel 2-dimensional surface vibrational spectroscopies of adsorbed molecules on surfaces or at interfaces. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 9978-9985	3.9	23
290	Theoretical description of the nonlinear response functions associated with eight distinctive three-dimensional vibrational spectroscopies. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 5021-5036	3.9	19
289	Non-phase-matched optical third-harmonic generation in noncentrosymmetric media: Cascaded second-order contributions for the calibration of third-order nonlinearities. <b>2000</b> , 61, 10688-10701		73
288	Optical third-harmonic generation of fused silica in gas atmosphere: Absolute value of the third-order nonlinear optical susceptibility ( $\chi^{(3)}$ ). <b>2000</b> , 61, 10702-10710		104
287	Third-order nonlinear optical properties of an expanded porphyrin cadmium complex. <b>2000</b> , 77, 1759		25
286	Orientalional and collision-induced contribution to third-order nonlinear optical response of liquid CS <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 6338-6348	3.9	36
285	Femtosecond optical Kerr effect measurements in silicate glasses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 120	1.7	34
284	Optical heterodyne detected spectrograms of ultrafast nonresonant electronic responses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 652	1.7	11
283	Simultaneous achievement of suppression of modulational instability and reduction of stimulated Raman scattering in optical fibers by orthogonal polarization pumping. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 1730	1.7	7
282	A new third-order nonlinear optical process.		
281	Nonlinear Optical Materials. <b>2001</b> , 6237-6244		22

280	Absolute molecular optical Kerr effect spectroscopy of dilute organic solutions and neat organic liquids. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2001</b> , 18, 679	1.7	13
279	Influence of the symmetry rules for Raman susceptibility on the accuracy of nonlinear index measurements in optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2001</b> , 18, 794 <sup>1-7</sup>		9
278	Two-dimensional vibrational spectroscopy. VIII. Infrared optical Kerr effect and two-color infrared pump-probe measurements. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 9982-9992	3.9	5
277	Analysis of Intermolecular Coordinate Contributions to Third-Order Ultrafast Spectroscopy of Liquids in the Harmonic Oscillator Limit. <b>2001</b> , 105, 7960-7972		56
276	Time Domain Optical Studies of Dynamics in Supercooled o-Terphenyl: Comparison to Mode Coupling Theory on Fast and Slow Time Scales. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 238-245	3.4	46
275	A Novel Technique for the Measurement of Polarization-Specific Ultrafast Raman Responses. <b>2001</b> , 105, 9851-9858		12
274	A Molecular Dynamics Simulation Study of the Nonlinear Optical Response of Liquid Crystalline Systems. <b>2001</b> , 709, 1		
273	Energy Transfer from Photoexcited Electronic States to the Thermal Modes. <b>2001</b> , 74, 595-611		8
272	Two-dimensional correlation spectroscopies of localized vibrations. <b>2001</b> , 266, 311-322		24
271	Periodic structures in difference phase and transmission spectra studied by a femtosecond Sagnac interferometer. <b>2001</b> , 188, 1-9		2
270	Raman-assisted three-wave mixing of non-phase-matched waves in optical fibres: application to wide-range frequency conversion. <b>2001</b> , 192, 107-121		7
269	Modulational Instability and Stimulated Raman Scattering in Normally Dispersive Highly Birefringent Fibers. <b>2001</b> , 7, 170-205		34
268	Ultrafast nonlinear optical processes: experimental and computational approaches.		
267	Dynamics of stimulated Raman scattering and four-wave mixing in wavelength-division-multiplexed systems. <b>2001</b> , OTuE18		
266	Polarization selectivity in fifth-order electronically nonresonant Raman scattering from CS <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 2312-2331	3.9	62
265	Investigations of ultrafast nuclear response induced by resonant and nonresonant laser pulses. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 6795-6815	3.9	62
264	New type of frequency-domain four-wave mixing spectroscopy using a quasicontinuous wave probe. <b>2001</b> , 72, 3772-3781		
263	Degenerate four-wave mixing and Z-scan measurements of stilbazolium derivatives. <b>2001</b> , 78, 1817-1819		32

262	Analysis of instantaneous profiles of intense femtosecond optical pulses propagating in helium gas measured by using femtosecond time-resolved optical polarigraphy. <b>2001</b> , 64,		20
261	Degenerate four-wave mixing in noncentrosymmetric materials. <b>2001</b> , 64,		9
260	Investigations of amplitude and phase excitation profiles in femtosecond coherence spectroscopy. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 701	3.9	144
259	Femtosecond vibrational-electronic four-wave-mixing spectroscopy. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 8040-8047	3.9	7
258	Piezoelectric contributions to pulsed degenerate four-wave mixing. <b>2001</b> , 78, 1861-1863		14
257	Relaxation processes in an epoxy resin studied by time-resolved optical Kerr effect. <b>2002</b> , 66, 011502		9
256	Density dependence of the optical Kerr effect of linear molecules. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 9867-9875	3.9	12
255	Optical Kerr effect in nematic liquid crystals: a molecular dynamics simulation study. <b>2002</b> , 100, 2423-2431		3
254	Ultrafast imaging to measure instantaneous intensity distributions of femtosecond optical pulses propagating in a medium. <b>2002</b> , 13, 1698-1709		8
253	Structural relaxation process in glass-forming liquids: A comparison between the optical Kerr effect and dielectric spectroscopy. <b>2002</b> , 82, 553-560		3
252	Polarization Specific Ultrafast Nuclear Dichroic Responses: Raman Spectral Density Recovery and Coherent Coupling Effects. <b>2002</b> , 75, 1111-1118		1
251	Multiframe observation of an intense femtosecond optical pulse propagating in air. <b>2002</b> , 27, 309-11		27
250	Molecular Design for Third-Order Nonlinear Optics. <b>2002</b> , 123-191		44
249	Polarizability anisotropy relaxation in liquid ethanol: A molecular dynamics study. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 3856-3873	3.9	30
248	Density matrix analysis and simulation of electronic excitations in conjugated and aggregated molecules. <b>2002</b> , 102, 3171-212		464
247	Modelling of nonlinear optical wave propagation including linear mode-coupling and birefringence. <b>2002</b> , 214, 207-230		1
246	Isotropic and anisotropic Raman scattering from molecular liquids measured by spatially masked optical Kerr effect spectroscopy. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 1139-1154	3.9	122
245	On the designing of densely dispersion-managed optical fiber systems for ultrafast optical communication. <b>2003</b> , 58, 1785-1808		9

244	Third-order optical nonlinearities of polythienylpolyenes and oligo(thienylvinylene). <b>2003</b> , 215, 185-190		30
243	Resonant third-order nonlinearities of tetrakis(2,2'-dipyridyl)diruthenium complexes. <b>2003</b> , 218, 189-194		10
242	Vector theory of stimulated Raman scattering and its application to fiber-based Raman amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2003</b> , 20, 1616	1.7	87
241	Nonlinear Optical Properties of Phthalocyanines. <b>2003</b> , 179-190		20
240	Ultrafast Solvation Dynamics: A View from the Solvent's Perspective Using a Novel Resonant-Pump, Nonresonant-Probe Technique. <b>2003</b> , 107, 956-961		67
239	Large pure refractive nonlinearity of nanostructure silica aerogel. <b>2003</b> , 82, 4444-4446		20
238	Electronic second hyperpolarizability of the carbon tetrachloride molecule. <b>2003</b> , 101, 315-321		3
237	Experimental studies of the ortho-toluidine glass transition. <b>2003</b> , 67, 021505		18
236	Performance of nonlinear dispersive APML in high-order FDTD schemes.		4
235	Transparent Optical Materials. <b>2003</b> ,		
234	The Intensity-Dependent Refractive Index. <b>2003</b> , 189-235		5
233	The Nonlinear Optical Susceptibility. <b>2003</b> , 1-65		10
232	Highly nonlinear dynamics of third-harmonic generation by focused beams. <b>2004</b> , 69,		8
231	Orientational and interaction induced dynamics in the isotropic phase of a liquid crystal: polarization resolved ultrafast optical Kerr effect spectroscopy. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 10828-36	3.9	21
230	Vector soliton fission. <b>2004</b> , 93, 183901		36
229	Influence of Raman effects on propagation of femtosecond pulses in all-optical phase-shift switches. <b>2004</b> , 43, 939		1
228	Theory of Raman effect on solitons in optical fibre systems: impact and control processes for high-speed long-distance transmission lines. <b>2004</b> , 234, 137-151		7
227	Direct comparison of the temperature dependence of the response functions measured by light scattering and optical Kerr effect spectroscopy. <b>2004</b> , 396, 232-237		5

226	Vibrational quantum interference in Raman-induced Kerr effect: momentum conservation. <b>2004</b> , 102, 1919-1931		1
225	Comparative OHD-RIKES and THz-TDS Probes of Ultrafast Structural Dynamics in Molecular Liquids. <b>2004</b> , 108, 9348-9360		23
224	High-order FDTD and auxiliary differential equation formulation of optical pulse propagation in 2-D Kerr and Raman nonlinear dispersive media. <b>2004</b> , 40, 175-182		58
223	Coherent anti-stokes raman scattering spectral interferometry: determination of the real and imaginary components of nonlinear susceptibility $\chi(3)$ for vibrational microscopy. <b>2004</b> , 29, 2923-5		142
222	Coupled-mode analysis of stimulated Raman scattering and four-wave mixing in wavelength-division multiplexed systems. <b>2005</b> , 250, 191-201		7
221	Optical nonlinearities in fibers: review, recent examples, and systems applications. <b>2005</b> , 23, 3625-3641		89
220	Nonlinear Effects (Basics). <b>2005</b> , 345-350		
219	Highly Porous Silica Nanoaerogels for Ultrafast Nonlinear Optical Applications. <b>2005</b> , 287, 352-357		3
218	Femtosecond investigation of the non-instantaneous third-order nonlinear susceptibility in liquids and glasses. <b>2005</b> , 87, 2119-16		12
217	Polarization-dependent detection of impulsive stimulated Raman scattering in quartz. <b>2005</b> , 52, 2501-2510		3
216	Probing excited-state dynamics and intramolecular proton transfer in 1-acylaminoanthraquinones via the intermolecular solvent response. <b>2005</b> , 109, 7033-45		53
215	Measuring the change in the intermolecular Raman spectrum during dipolar solvation. <b>2005</b> , 109, 3295-306		48
214	Optical Kerr effect spectroscopy using time-delayed pairs of pump pulses with orthogonal polarizations. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 8481-8	3-4	10
213	Analyzing the fundamental properties of Raman amplification in optical fibers. <b>2005</b> , 23, 3597-3605		27
212	Pseudospectral spatial-domain: a new method for nonlinear pulse propagation in the few-cycle regime with arbitrary dispersion. <b>2005</b> , 52, 973-986		29
211	Cascading third-order Raman process and local structure formation in binary liquid mixtures of benzene and n-hexane. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 064504	3-9	5
210	Polarization Effects. <b>2006</b> , 177-225		1
209	Stimulated Raman Scattering. <b>2006</b> , 274-328		3

208	Nonlinear optical effects in optical fibers. <b>2006</b> , 209-259		2
207	Characterization Techniques of Nonlinear Optical Materials. <b>2006</b> , 419-459		7
206	Third-Order Nonlinear Optical Response of Metal Nanoparticles. <b>2006</b> , 461-508		20
205	Optical Properties of Glasses. <b>2006</b> ,		3
204	Photon-pair generation by four-wave mixing in optical fibers. <b>2006</b> , 31, 1286-8		39
203	Raman response function for silica fibers. <b>2006</b> , 31, 3086-8		145
202	Spectroscopy of third-harmonic generation: evidence for resonances in model compounds and ligated hemoglobin. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2006</b> , 23, 932	1.7	51
201	Second- and third-harmonic generation with vector Gaussian beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2006</b> , 23, 2134	1.7	44
200	Raman-induced signals in optical Kerr effect measurements of water with elliptically polarized pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2006</b> , 23, 2522	1.7	
199	Theory of Self-Phase Modulation and Spectral Broadening. <b>2006</b> , 1-32		1
198	Ferroelectric Materials. <b>2006</b> , 6-1-6-66		3
197	Modulational instability in optical fibers with arbitrary higher-order dispersion and delayed Raman response. <b>2006</b> , 266, 142-150		28
196	A simple and rigorous verification technique for nonlinear fdtd algorithms by optical parametric four-wave mixing. <b>2006</b> , 48, 88-91		16
195	An accurate model for the Raman response function in silica fibers. <b>2006</b> ,		1
194	Supercooled water relaxation dynamics probed with heterodyne transient grating experiments. <b>2006</b> , 74, 031502		30
193	Quantification of optical pulsed-plane-wave-shaping by chiral sculptured thin films. <b>2006</b> , 53, 2763-2783		7
192	Strong nuclear contribution to the optical Kerr effect in niobium oxide containing glasses. <b>2007</b> , 75,		11
191	Photothermal Studies of Photophysical and Photochemical Processes by the Transient Grating Method. <b>2007</b> , 255-338		24

190	Simulation of Nonlinear Electronic Spectroscopy in the Condensed Phase. <b>2007</b> , 435-516		41
189	Raman response function of atmospheric air. <b>2007</b> , 32, 2052-4		25
188	Experimental observation and theoretical analysis of Raman resonance-enhanced photodamage in coherent anti-Stokes Raman scattering microscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 544	1.7	23
187	Degenerate four-wave mixing in solution by cubic response theory and the polarizable continuum model. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8965-73	3.4	15
186	Quantitative characterization of biological liquids for third-harmonic generation microscopy. <b>2007</b> , 92, 603-12		60
185	Nonlinear Propagation of Laser Light of Different Polarizations. <b>2007</b> , 217-247		
184	Coherent anti-Stokes Raman Scattering Microscopy. <b>2007</b> , 8, 2156-70		204
183	Swamping of circular Bragg phenomenon and shaping of videopulses. <b>2007</b> , 49, 776-779		2
182	Photon-pair generation in optical fibers through four-wave mixing: Role of Raman scattering and pump polarization. <b>2007</b> , 75,		125
181	On the mechanism of weak-field coherent control of retinal isomerization in bacteriorhodopsin. <b>2007</b> , 341, 296-309		30
180	Gold nanoparticle assemblies: interplay between thermal effects and optical response. <b>2008</b> , 41, 341-348		15
179	An analytical model of the rotational Raman response function of molecular gases. <b>2008</b> , 39, 756-765		9
178	Vector solitary waves in strongly birefringent fibers with Raman scattering. <b>2008</b> , 372, 2730-2733		2
177	Synthetic temporal aperture coherent molecular phase spectroscopy. <b>2008</b> , 463, 300-304		10
176	Nuclear and electronic contributions to the third-order nonlinearity in different glasses. <b>2008</b> , 281, 769-775		7
175	Two Dimensional Fifth-Order Raman Spectroscopy. <b>2008</b> , 1-72		1
174	Phase measurement of coherent Raman vibrational spectroscopy with chirped spectral holography. <b>2008</b> , 33, 2116-8		9
173	Background-free coherent anti-Stokes Raman spectroscopy near transverse interfaces: a vectorial study. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 1655	1.7	9



172	Coherent anti-stokes Raman scattering microscopy: chemical imaging for biology and medicine. <b>2008</b> , 1, 883-909		858
171	The Nonlinear Optical Susceptibility. <b>2008</b> , 1-67		53
170	The Intensity-Dependent Refractive Index. <b>2008</b> , 207-252		15
169	Ultrafast nonresonant response of TiO <sub>2</sub> nanostructured films. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 244718	3.9	9
168	Focused field symmetries for background-free coherent anti-Stokes Raman spectroscopy. <b>2008</b> , 77,		12
167	Vibrational imaging based on stimulated Raman scattering microscopy. <b>2009</b> , 11, 033026		262
166	Influence of the Stimulated Raman Scattering on the Four-Wave Mixing Process in Birefringent Fibers. <b>2009</b> , 27, 4979-4988		19
165	Evolution of the linear and nonlinear optical properties of femtosecond laser exposed fused silica. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, 2077	1.7	3
164	A full vectorial model for pulse propagation in emerging waveguides with subwavelength structures part II: Stimulated Raman Scattering. <i>Optics Express</i> , <b>2009</b> , 17, 11565-81	3.3	27
163	An accurate envelope equation for light propagation in photonic nanowires: new nonlinear effects. <i>Optics Express</i> , <b>2009</b> , 17, 17934-49	3.3	8
162	Beam Shaping and Suppression of Self-focusing in High-Peak-Power Nd:Glass Laser Systems. <i>Topics in Applied Physics</i> , <b>2009</b> , 191-229	0.5	6
161	Sensitive and Selective Detection of Low-Frequency Vibrational Modes Through a Phase-Shifting Fourier Transform Spectroscopy. <b>2009</b> , 45, 777-782		4
160	Third-order optical susceptibility: A comparison among various terms. <b>2010</b> , 121, 94-96		2
159	Understanding the nonlinear-optical response of a liquid-core photonic-crystal fiber. <b>2010</b> , 7, 46-49		16
158	Revisiting the Young's double slit experiment for background-free nonlinear Raman spectroscopy and microscopy. <b>2010</b> , 104, 213905		18
157	Label-free cellular imaging by broadband coherent anti-Stokes Raman scattering microscopy. <b>2010</b> , 99, 2695-704		94
156	Measurement of pressure dependent nonlinear refractive index of inert gases. <i>Optics Express</i> , <b>2010</b> , 18, 25847-54	3.3	45
155	Supercontinuum generation in liquid-filled photonic crystal fiber with slow nonlinear response. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 1763	1.7	47

154	Time-Domain Modeling of Nonlinear Optical Structures With Extended Stability FDTD Schemes. <b>2011</b> , 29, 1003-1010		7
153	Optimization of Raman-Assisted Fiber Optical Parametric Amplifier Gain. <b>2011</b> , 29, 1172-1181		16
152	Detection of chemical interfaces in coherent anti-Stokes Raman scattering microscopy: Dk-CARS. I. Axial interfaces. <b>2011</b> , 28, 2519-30		4
151	Detection of chemical interfaces in coherent anti-Stokes Raman scattering microscopy: D-CARS. II. Arbitrary interfaces. <b>2011</b> , 28, 2531-9		3
150	Comparative Study of FDTD-Adopted Numerical Algorithms for Kerr Nonlinearities. <b>2011</b> , 10, 143-146		23
149	Soliton-induced supercontinuum generation in liquid-filled photonic crystal fibre. <b>2011</b> , 77, 959-974		3
148	Raman gap soliton in one-dimensional photonic crystal: A FDTD analysis. <b>2011</b> , 65, 767-771		3
147	Evolution of first-order sidebands from multiple FWM processes in HiBi optical fibers. <b>2011</b> , 284, 3408-3415		7
146	Statistical characterization of a single-photon source based on stimulated FWM in optical fibers. <b>2011</b> ,		0
145	Two-Photon Luminescence in Yb:YAG. <b>2012</b> , 535-537, 1359-1366		
144	Optical Spectroscopy of Biological Cells. <b>2012</b> , 4, 322		17
143	Modeling of nonlinear propagation in fiber tapers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 3183	1.7	12
142	Coherence-modulated third harmonic generation for vibrational spectroscopy: a theoretical treatment. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 1875	1.7	5
141	Rotating-polarization CARS microscopy: combining chemical and molecular orientation sensitivity. <i>Optics Express</i> , <b>2012</b> , 20, 29369-77	3.3	26
140	Modulational instability at the proximity of zero dispersion wavelength in the relaxing saturable nonlinear system. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 2803	1.7	16
139	Wide-field vibrational phase imaging. <b>2012</b> , 109, 093902		16
138	NUMERICAL ANALYSIS OF THE INSTANTANEOUS AND RELAXED KERR MODEL FOR GENERATION OF THE ALL-OPTICAL LOGIC GATES WITH TRIANGULAR FIBER COUPLER (TFC). <b>2012</b> , 21, 1250037		11
137	Nonreciprocal light transmission in silicon by Raman-induced asymmetry of the permittivity tensor. <b>2012</b> , 111, 093107		3

136	2.9 CARS Microscopy. <b>2012</b> , 165-179		
135	Fundamental aspects of light scattering and optical Kerr effect spectroscopy. <b>2012</b> , 209, 1-100		16
134	Evidence of two distinct local structures of water from ambient to supercooled conditions. <b>2013</b> , 4, 2401		138
133	A comparative study on bulk and nanoconfined water by time-resolved optical Kerr effect spectroscopy. <b>2013</b> , 167, 293-308		30
132	Pulse Propagation in Fibers. <b>2013</b> , 27-56		19
131	Stimulated Raman Scattering. <b>2013</b> , 295-352		8
130	Polarization Effects. <b>2013</b> , 193-244		4
129	Wide-field vibrational phase imaging in an extremely folded box-CARS scattering geometry. <b>2013</b> , 38, 709-11		15
128	Design of an 1800nm Raman amplifier. <b>2013</b> ,		2
127	Small molecule supramolecular assemblies for third-order nonlinear optics. <b>2013</b> , 170-189		1
126	Coherent anti-Stokes Raman scattering for label-free biomedical imaging. <b>2013</b> , 15, 094006		19
125	Quadriwave lateral shearing interferometry as a quantification tool for microscopy. Application to dry mass determination of living cells, temperature mapping, and vibrational phase imaging. <b>2013</b> ,		3
124	Watching orientational ordering at the nanoscale with coherent anti-stokes Raman microscopy. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 11822-30	4.8	12
123	Determination of dynamical parameters in liquids by homodyne transient grating spectroscopy at large angles. <b>2014</b> , 39, 5110-3		8
122	Optical Kerr effect of liquid and supercooled water: the experimental and data analysis perspective. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 084507	3.9	21
121	The Maser. <b>2015</b> , 108-161		4
120	Nonlinear optical characterization of the Ag nanoparticles doped in polyvinyl alcohol films. <b>2015</b> , 118, 949-954		9
119	Two-photon absorption and spectroscopy of the lowest two-photon transition in small donor-acceptor substituted organic molecules. <b>2015</b> , 91,		13

118	Chemically sensitive bioimaging with coherent Raman scattering. <b>2015</b> , 9, 295-305		267
117	Wide-Field Vibrational Phase Contrast Imaging Based on Coherent Anti-Stokes Raman Scattering Holography. <b>2015</b> , 32, 074209		
116	Optimum conjugation length in donor-acceptor molecules for third-order nonlinear optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, E130	1.7	8
115	Novel propagation regimes for TE waves guided by a waveguide filled with Kerr medium. <b>2016</b> , 25, 1650051		32
114	Ultrafast transient absorption revisited: Phase-flips, spectral fingers, and other dynamical features. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 175102	3.9	40
113	Nonlinear Optical Materials. <b>2016</b> ,		2
112	Nonlinear optical properties of the mixture of ZnO nanoparticles and graphene nanosheets. <b>2016</b> , 122, 1		42
111	Multimode supercontinuum generation in chalcogenide glass fibres. <i>Optics Express</i> , <b>2016</b> , 24, 2513-26	3.3	51
110	. <b>2016</b> ,		
109	Moving media: Second harmonic generation investigation. <b>2016</b> , 30, 1650138		
108	Computationally-efficient FDTD modeling of supercontinuum generation in photonic crystal fibers. <b>2016</b> , 48, 1		1
107	Transient birefringence of liquids induced by terahertz electric-field torque on permanent molecular dipoles. <b>2017</b> , 8, 14963		35
106	Nonlinear multi-frequency electromagnetic wave propagation phenomena. <b>2017</b> , 19, 115502		11
105	Simulations of the OKE Response in Simple Liquids Using a Polarizable and a Nonpolarizable Force Field. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 1638-1654	3.4	7
104	Cavity enhanced third harmonic generation in graphene. <b>2018</b> , 112, 011102		14
103	Impact of Raman scattering on pulse dynamics in a fiber laser with narrow gain bandwidth. <b>2018</b> , 20, 065502		0
102	On the existence of infinitely many nonperturbative solutions in a transmission eigenvalue problem for nonlinear Helmholtz equation with polynomial nonlinearity. <b>2018</b> , 53, 296-309		18
101	Electromagnetic Guided Waves in a Lossless Cubic-Quintic Nonlinear Waveguide. <b>2018</b> , 39, 1108-1116		4

100	Tutorial: Coherent Raman light matter interaction processes. <b>2018</b> , 3, 091101		35
99	Plasma physics of liquidsA focused review. <b>2018</b> , 5, 031103		111
98	Resonant Third-Order Susceptibility of PbSe Quantum Dots Determined by Standard Dilution and Transient Grating Spectroscopy. <b>2018</b> , 122, 18086-18093		2
97	Nonlinear propagation of four components with different polarizations and frequencies in a single optical pulse by using a five-level atomic system. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2018</b> , 35, 2217	1.7	1
96	Role of the Raman gain in the noise dynamics of all-normal dispersion silica fiber supercontinuum generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2018</b> , 35, 2102	1.7	13
95	Nonlinear optical response of graphene/silicon nanocomposites. <b>2018</b> , 50, 1		6
94	Highly coherent supercontinuum generation in CS <sub>2</sub> -infiltrated single-core optical fiber. <b>2019</b> , 21, 105501		5
93	Full 3D+1 calculations of terahertz generation in the tilted-pulse-front scheme. <b>2019</b> ,		
92	Pulse propagation in fibers. <b>2019</b> , 27-55		2
91	Polarization effects. <b>2019</b> , 189-244		1
90	Stimulated Raman scattering. <b>2019</b> , 297-354		
89	Maxwell's equations with arbitrary self-action nonlinearity in a waveguiding theory: Guided modes and asymptotic of eigenvalues. <b>2019</b> , 479, 1138-1157		2
88	Electromagnetic wave propagation in a layer with power nonlinearity. <b>2019</b> , 28, 1950009		8
87	Inter-modal Raman amplification of OAM fiber modes. <b>2019</b> , 4, 030802		7
86	Magic high-order harmonics from a quasi-one-dimensional hexagonal solid. <b>2019</b> , 99,		7
85	Nonlinear response of fibers. <b>2019</b> , 687-688		
84	Dynamics in the BMIM PF/acetonitrile mixtures observed by femtosecond optical Kerr effect and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 24544-24554	3.6	3
83	Method of Moments Optimization of Distributed Raman Amplification in Fibers with Randomly Varying Birefringence. <i>Photonics</i> , <b>2020</b> , 7, 86	2.2	1

82	Third order nonlinear optical property of WSe <sub>2</sub> nanofilm at 800 nm. <i>Optical Materials</i> , <b>2020</b> , 107, 110040	3	3
81	The Nonlinear Optical Susceptibility. <b>2020</b> , 1-64		2
80	The Intensity-Dependent Refractive Index. <b>2020</b> , 203-248		1
79	Orientational Pair Correlations and Local Structure of Benzonitrile from Molecular Dynamics Simulations with Comparisons to Experiments. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3163-3177	3-4	1
78	The ultrafast Kerr effect in anisotropic and dispersive media. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 094202	3	3
77	Embedded split-step methods optimized with a step size control for solving the femtosecond pulse propagation problem in the nonlinear fiber optics formalism. <i>Physica Scripta</i> , <b>2021</b> , 96, 075502	2.6	1
76	Search for the origin of synergistic solvation in methanol/chloroform mixture using optical Kerr effect spectroscopy. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 117013	6	0
75	Full Explicit Numerical Modeling in Time-Domain for Nonlinear Electromagnetics Simulations in Ultrafast Laser Nanostructuring. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7429	2.6	0
74	Low frequency coherent Raman spectroscopy. <i>JPhys Photonics</i> , <b>2021</b> , 3, 042004	2.5	2
73	Roles of fiber birefringence and Raman scattering in the spontaneous four-wave mixing process through birefringent fibers. <i>Optics Express</i> , <b>2021</b> , 29, 31348-31363	3-3	
72	Optical Kerr Effect Experiments on Complex Liquids. <b>2008</b> , 73-127		6
71	Optical Self-Focusing: Stationary Beams and Femtosecond Pulses. <i>Topics in Applied Physics</i> , <b>2009</b> , 103-127	5	1
70	Femtosecond Studies of Dephasing and Phase Conjugation With Incoherent Light. <b>1988</b> , 137-155		3
69	Coherent Raman Ellipsometry of Liquid Water: New New Data on the Vibrational Stretching Region. <b>1979</b> , 437-446		0
68	Theory of Self-Phase Modulation and Spectral Broadening. <b>1989</b> , 1-32		7
67	Organometallics for Nonlinear Optics. <b>1999</b> , 107-167		2
66	Theory of Self-Phase Modulation and Spectral Broadening. <b>2016</b> , 1-32		3
65	Beam Quality and Losses. <i>Springer Series in Optical Sciences</i> , <b>1983</b> , 75-96	0.5	1

64	Background-free Coherent Raman Imaging: The CARS and SRS Contrast Mechanisms. <i>Springer Series in Optical Sciences</i> , <b>2012</b> , 347-372	0.5	2
63	Picosecond Molecular Dynamics in Liquids and Electron Localization. <i>Springer Series in Chemical Physics</i> , <b>1978</b> , 208-217	0.3	2
62	Nonlinear Transient Spectroscopy Using Four-Wave Mixing with Broad-Bandwidth Laser Beams. <i>Springer Proceedings in Physics</i> , <b>1992</b> , 148-158	0.2	1
61	Femtosecond IR Studies of Solvation by Probing the Solvent. <i>Springer Series in Chemical Physics</i> , <b>1996</b> , 300-301	0.3	2
60	Coherent Raman Spectroscopy. <i>Topics in Current Physics</i> , <b>1980</b> , 293-371		9
59	Interaction-Induced, Subpicosecond Phenomena in Liquids. <i>Springer Series in Chemical Physics</i> , <b>1984</b> , 244-251	0.3	10
58	Phase Grating Approach to Susceptibility Tensors: Determination in Isotropic Media. <i>Springer Series in Chemical Physics</i> , <b>1986</b> , 504-509	0.3	1
57	Ultrafast Infrared Spectroscopy of Protein Dynamics. <i>Springer Series in Chemical Physics</i> , <b>1993</b> , 517-521	0.3	2
56	Time Resolved Measurement of Nonlinear Susceptibilities by Optical Kerr Effect. <i>Springer Series in Chemical Physics</i> , <b>1982</b> , 217-220	0.3	10
55	Non-Linear Optical Spectroscopy and Molecular Dynamics in Liquids. <b>1984</b> , 139-162		3
54	Why are Solitons Robust in Optical Fibers?. <b>1992</b> , 457-488		2
53	MANY-BODY EFFECTS IN NONLINEAR SUSCEPTIBILITIES; BEYOND THE LOCAL-FIELD APPROXIMATION. <b>1994</b> , 1-46		7
52	CROSS-PHASE MODULATION. <b>1995</b> , 238-315		4
51	Phase Conjugation by Four-Wave Mixing in a Waveguide. <b>1983</b> , 127-133		1
50	Applications of Nonlinear Optical Phase Conjugation. <b>1983</b> , 537-595		4
49	Morphic Effects in Lattice Dynamics. <b>1980</b> , 4, 157-375		13
48	NONLINEAR DYNAMICS AND INSTABILITIES OF COUPLED WAVES AND SOLITONS IN OPTICAL FIBERS. <b>1992</b> , 185-236		2
47	Nonlinear self-polarization of Raman amplified light in fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2017</b> , 34, 1644	1.7	1

46	Full 3D + 1 modeling of tilted-pulse-front setups for single-cycle terahertz generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 1000	1.7	7
45	Dependence of Z-scan measurements on the spatiotemporal pulse parameters. <i>Lithuanian Journal of Physics</i> , <b>2011</b> , 51, 127-135	1.1	2
44	Nonresonant Intermolecular Spectroscopy of Liquids. <b>2001</b> ,		
43	Impact of Stimulated Raman Scattering in High-Speed Long-Distance Transmission Lines. <i>Lecture Notes in Physics</i> , <b>2002</b> , 207-225	0.8	
42	Einmodenfasern. <b>2002</b> , 80-213		4
41	Properties of Te Fine Particle Doped SiO <sub>2</sub> Gel by the Sol-Gel Method. <i>Korean Journal of Materials Research</i> , <b>2002</b> , 12, 650-655	0.2	1
40	Distributed Raman Amplifiers. <b>2005</b> , 103-168		3
39	FIBER AND GUIDED WAVE OPTICS   Nonlinear Effects (Basics). <b>2005</b> , 467-471		
38	SCATTERING   Scattering Phenomena in Optical Fibers. <b>2005</b> , 321-325		
37	Measuring Nonlinear Refraction and Its Dispersion. <i>Topics in Applied Physics</i> , <b>2009</b> , 573-591	0.5	1
36	Ultrafast nonlinear refractivity of Lead Lantum Zirconate Titanate Ceramics. <b>2011</b> ,		
35	Fibre Amplifiers. <i>Springer Series in Optical Sciences</i> , <b>2012</b> , 473-509	0.5	0
34	Stimulierte Raman-Streuung. <b>2014</b> , 205-282		
33	Noise in Nonlinear Optics. <b>1978</b> , 297-303		
32	Temporal Dependence of Third-Order Non-Linear Optical Susceptibilities of Fused Quartz and Liquid CCl <sub>4</sub> . <i>Springer Series in Chemical Physics</i> , <b>1984</b> , 196-198	0.3	
31	Nonlinear Spectroscopic Techniques and their Applications to Analytical Chemistry. <i>NATO ASI Series Series B: Physics</i> , <b>1984</b> , 81-87		
30	Picosecond Laser Spectroscopy and Molecular Dynamics: I Pump-Probe Spectroscopy Techniques and Photodynamics II Nonlinear Laser Spectroscopy and Molecular Motion. <b>1984</b> , 331-356		
29	COHERENT RAMAN SPECTROSCOPY (CRS). <b>1988</b> , 130-176		



28	Strong Field Effects and Molecular Dynamics Simulations. <i>NATO ASI Series Series B: Physics</i> , <b>1988</b> , 203-219		
27	CROSS-PHASE MODULATION. <b>1989</b> , 172-217		
26	Charge Correlations in Molecular Fluids and Impurity Absorption Spectra. <i>Springer Proceedings in Physics</i> , <b>1989</b> , 175-184	0.2	
25	Femtosecond Free Induction Decay of Metal Surface Adsorbate Vibrations. <i>Springer Series in Chemical Physics</i> , <b>1993</b> , 345-346	0.3	1
24	Relaxation of Frenkel-Type Rotational and Vibrational Excitons in Diatomic Molecular Crystals. <i>NATO ASI Series Series B: Physics</i> , <b>1993</b> , 237-286		
23	Molecular optics. <b>1993</b> , 27-59		
22	Restrictions to Homodyne Time-Resolved Techniques: Asymmetric Lineshapes of the Vibrons in $\text{Ar(N}_2\text{)}_n$ . <i>Springer Proceedings in Physics</i> , <b>1994</b> , 46-47	0.2	
21	Characterization of the Complex Third-order Susceptibility of Myoglobin using Diffractive Optics. <i>Springer Series in Chemical Physics</i> , <b>1998</b> , 130-132	0.3	
20	Silicon Plasmonic Waveguides. <b>2016</b> , 69-94		3
19	Fiber Amplifiers. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 585-627	0.5	
18	The Appeal of Small Molecules for Practical Nonlinear Optics. <i>Chemistry - A European Journal</i> , <b>2021</b> ,	4.8	5
17	Intermodal Raman Scattering between Orbital Angular Momentum Modes in Optical Fibers. <b>2020</b> ,		
16	How Kerr nonlinearity influences polarized electromagnetic wave propagation. <i>URSI Radio Science Bulletin</i> , <b>2017</b> , 2017, 19-42	0.1	0
15	Nonlinear Optical Effects in Optical Fibers. <b>2022</b> , 219-269		
14	Coherent Raman scattering processes. <b>2022</b> , 3-20		
13	Nonlinear Optical Microscopy and Plasmon Enhancement.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	1
12	Neumann's Principle Based Eigenvector Approach for Deriving Non-Vanishing Tensor Elements for Nonlinear Optics.		1
11	Self-steepening and intrapulse Raman scattering in the presence of nonlinear gain and its saturation. <b>2022</b> , 170137		0

- 10 Supercontinuum generation in highly birefringent fiber infiltrated with carbon disulfide. **2023**, 75, 103151
- 9 On a Different Vision of Kerr Law in Nonlinear Optical Waveguide Theory. **2022**, 9, 901
- 8 Theory of Self-Phase Modulation and Spectral Broadening. **2022**, 1-32
- 7 Temporal Dependence of Non-Linear Optical Susceptibilities of Fused Quartz and Liquid CCl<sub>4</sub>. **1984**,
- 6 Femtosecond IR Studies of Solvation by Directly Probing the Solvent. **1996**,
- 5 Femtosecond IR Studies of Solvation by Directly Probing the Solvent. **1996**,
- 4 Modulational Instability and Raman Scattering in Optical Fibers. **1991**,
- 3 Stimulated Raman scattering in optical fibers: spontaneous initiation and spatial propagation. **1991**,
- 2 Femtosecond Intermolecular Dynamics of Liquid Carbon Disulfide at Elevated Pressures. **1990**,
- 1 Nonlinear Optical Materials. **2023**, 98-108