

Otto L Muskens

List of Publications by Year in descending order

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174
papers

6,786
citations

61945

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175
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175
docs citations

175
times ranked

8805
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning Enabled Strategies for Modeling of Complex Aperiodic Plasmonic Metasurfaces of Arbitrary Size. ACS Photonics, 2022, 9, 575-585.	3.2	17
2	Ge Ion Implanted Photonic Devices and Annealing for Emerging Applications. Micromachines, 2022, 13, 291.	1.4	2
3	Time-resolved reversible optical switching of the ultralow-loss phase change material Sb ₂ Se ₃ . Journal of Optics (United Kingdom), 2022, 24, 064013.	1.0	12
4	Review of Open Cavity Random Lasers as Laser-Based Sensors. ACS Sensors, 2022, 7, 914-928.	4.0	12
5	VO ₂ metasurface smart thermal emitter with high visual transparency for passive radiative cooling regulation in space and terrestrial applications. Nanophotonics, 2022, 11, 4101-4114.	2.9	37
6	Inverse design of structural color: finding multiple solutions via conditional generative adversarial networks. Nanophotonics, 2022, 11, 3057-3069.	2.9	14
7	A SARS-Cov-2 sensor based on upconversion nanoparticles and graphene oxide. RSC Advances, 2022, 12, 18445-18449.	1.7	11
8	Visible to Near-infrared Chip-integrated Tunable Optical Modulators Based on Niobium Plasmonic Nano-antenna and Nano-circuit Metasurface Arrays. , 2022, , .		1
9	Wafer-Scale 200 nm Metal Oxide Infrared Metasurface with Tailored Differential Emissivity Response in the Atmospheric Windows. Advanced Optical Materials, 2022, 10, .	3.6	6
10	Deep Learning Enabled Design of Complex Transmission Matrices for Universal Optical Components. ACS Photonics, 2021, 8, 283-295.	3.2	44
11	Nanometallic antenna-assisted amorphous silicon waveguide integrated bolometer for mid-infrared. Optics Letters, 2021, 46, 677.	1.7	17
12	A DNA sensor based on upconversion nanoparticles and two-dimensional dichalcogenide materials. Frontiers of Chemical Science and Engineering, 2021, 15, 935-943.	2.3	9
13	Accurate inverse design of Fabry-Pérot-cavity-based color filters far beyond sRGB via a bidirectional artificial neural network. Photonics Research, 2021, 9, B236.	3.4	35
14	Deep learning in nano-photonics: inverse design and beyond. Photonics Research, 2021, 9, B182.	3.4	222
15	Gigahertz Nano-Optomechanical Resonances in a Dielectric SiC-Membrane Metasurface Array. Nano Letters, 2021, 21, 4563-4569.	4.5	13
16	Superresolved polarization-enhanced second-harmonic generation for direct imaging of nanoscale changes in collagen architecture. Optica, 2021, 8, 674.	4.8	15
17	Nonvolatile programmable silicon photonics using an ultralow-loss Sb ₂ Se ₃ phase change material. Science Advances, 2021, 7, .	4.7	127
18	Single-nanoantenna driven nanoscale control of the VO ₂ insulator to metal transition. Nanophotonics, 2021, 10, 3745-3758.	2.9	4

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19	Broadband thin-film and metamaterial absorbers using refractory vanadium nitride and their thermal stability. Optics Express, 2021, 29, 33456.	1.7	16
20	Mechanically Tunable Terahertz Metamaterial Perfect Absorber. Advanced Photonics Research, 2021, 2, 2100136.	1.7	8
21	A Novel Selective Carrier Modulation Technique to Form a Planar Metal Oxide Metasurface. , 2021, , .		0
22	Chemically modified nucleic acids and DNA intercalators as tools for nanoparticle assembly. Chemical Society Reviews, 2021, 50, 13410-13440.	18.7	20
23	Deep learning enabled design of free-space and integrated nanophotonic devices. , 2021, , .		0
24	Deep Learning Meets Nanophotonics: A Generalized Accurate Predictor for Near Fields and Far Fields of Arbitrary 3D Nanostructures. Nano Letters, 2020, 20, 329-338.	4.5	149
25	A New Family of Ultralow Loss Reversible Phase-Change Materials for Photonic Integrated Circuits: Sb ₂ S ₃ and Sb ₂ Se ₃ . Advanced Functional Materials, 2020, 30, 2002447.	7.8	285
26	Strongly coupled evenly divided disks: a new compact and tunable platform for plasmonic Fano resonances. Nanotechnology, 2020, 31, 325202.	1.3	2
27	Polarizabilities of complex individual dielectric or plasmonic nanostructures. Physical Review B, 2020, 101, .	1.1	9
28	Ion Implantation of Germanium Into Silicon for Critical Coupling Control of Racetrack Resonators. Journal of Lightwave Technology, 2020, 38, 1865-1873.	2.7	9
29	Embedded Metal Oxide Plasmonics Using Local Plasma Oxidation of AZO for Planar Metasurfaces. Advanced Materials, 2020, 32, e2001534.	11.1	18
30	AZO nanowires as a random laser. , 2020, , .		1
31	Metal Oxide Meta-Optical Solar Reflectors for Space Applications. , 2020, , .		0
32	Imaging through highly scattering environments using ballistic and quasi-ballistic light in a common-path Sagnac interferometer. Optics Express, 2020, 28, 10386.	1.7	2
33	Mid-Infrared Silicon Waveguide-Based Bolometer. , 2019, , .		0
34	Light-Induced Reversible DNA Ligation of Gold Nanoparticle Superlattices. ACS Nano, 2019, 13, 5771-5777.	7.3	32
35	Polycrystalline ZnO nanorods for lasing applications. Journal of Applied Physics, 2019, 125, .	1.1	5
36	Mid-Infrared Nanometallic Antenna Assisted Silicon Waveguide Based Bolometers. ACS Photonics, 2019, 6, 3253-3260.	3.2	27

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37	Mid-Infrared Silicon Waveguide-Based Bolometer. , 2019, , .		0
38	Deep learning enabled real time speckle recognition and hyperspectral imaging using a multimode fiber array. Optics Express, 2019, 27, 20965.	1.7	47
39	Design of plasmonic directional antennas via evolutionary optimization. Optics Express, 2019, 27, 29069.	1.7	25
40	Optical response of gold and upconversion nanoparticles assembled via DNA interaction. , 2019, , .		1
41	DNA: Gold nanoparticles designed for mRNA sensing in cells: imaging of the gold nanoparticles using two photon photoluminescence spectroscopy.. , 2019, , .		2
42	Sensing of Vimentin mRNA in 2D and 3D Models of Wounded Skin Using DNA-Coated Gold Nanoparticles. Small, 2018, 14, e1703489.	5.2	23
43	VO ₂ Thermo-chromic Metamaterial-Based Smart Optical Solar Reflector. ACS Photonics, 2018, 5, 2280-2286.	3.2	161
44	Hybrid Photon-Plasmon Coupling and Ultrafast Control of Nanoantennas on a Silicon Photonic Chip. Nano Letters, 2018, 18, 610-617.	4.5	30
45	Multiplexed mRNA Sensing and Combinatorial-Targeted Drug Delivery Using DNA-Gold Nanoparticle Dimers. ACS Nano, 2018, 12, 3333-3340.	7.3	107
46	Metasurface Optical Solar Reflectors Using AZO Transparent Conducting Oxides for Radiative Cooling of Spacecraft. ACS Photonics, 2018, 5, 495-501.	3.2	114
47	Real-Time Phase Trimming of Mach-Zehnder Interferometers by Femtosecond Laser Annealing of Germanium Implanted Waveguides. , 2018, , .		0
48	In-Depth Analysis of Excitation Dynamics in Dye-Sensitized Upconversion Core and Core/Active Shell Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 18177-18184.	1.5	9
49	Graphene Oxide-Upconversion Nanoparticle Based Portable Sensors for Assessing Nutritional Deficiencies in Crops. ACS Nano, 2018, 12, 6273-6279.	7.3	79
50	Ultrafast perturbation maps as a quantitative tool for testing of multi-port photonic devices. Nature Communications, 2018, 9, 2246.	5.8	6
51	Real-time monitoring and gradient feedback enable accurate trimming of ion-implanted silicon photonic devices. Optics Express, 2018, 26, 24953.	1.7	21
52	Snapshot fiber spectral imaging using speckle correlations and compressive sensing. Optics Express, 2018, 26, 32302.	1.7	16
53	Interactions of DNA coated upconversion nanoparticles with 2D materials. , 2018, , .		0
54	A speckle-based approach to compressive hyperspectral imaging. , 2018, , .		0

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55	A compressive approach to speckle-based imaging spectroscopy. , 2018, , .		0
56	Germanium implanted photonic devices for post-fabrication trimming and programmable circuits. , 2018, , .		1
57	High-Amplitude, Ultrashort Strain Solitons in Solids. , 2018, , 15-48.		0
58	Polarization conversion in plasmonic nanoantennas for metasurfaces using structural asymmetry and mode hybridization. Scientific Reports, 2017, 7, 40906.	1.6	21
59	Functionalized nanoparticles and applications. , 2017, , .		0
60	Graphene Oxide-Upconversion Nanoparticle Based Optical Sensors for Targeted Detection of mRNA Biomarkers Present in Alzheimerâ€™s Disease and Prostate Cancer. ACS Sensors, 2017, 2, 52-56.	4.0	107
61	Ultrafast Spectroscopy and Nonlinear Control of Single Nanoparticles and Antennas. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 197-253.	0.1	0
62	Metal oxide metasurfaces for active control and space technology. , 2017, , .		0
63	Nanoscale modeling of electro-plasmonic tunable devices for modulators and metasurfaces. Optics Express, 2017, 25, 10031.	1.7	9
64	Plasmonic properties of superconducting niobium in the optical part of the spectrum. , 2017, , .		1
65	Electrically tunable gap-loaded plasmonic nanostructures. , 2017, , .		0
66	Speckle-based hyperspectral imaging combining multiple scattering and compressive sensing in nanowire mats. Optics Letters, 2017, 42, 1820.	1.7	29
67	Ultrafast all-optical order-to-chaos transition in silicon photonic crystal chips. Laser and Photonics Reviews, 2016, 10, 688-695.	4.4	5
68	Tuning the linear and non-linear optical response of orthogonal dimmer antennas for metasurfaces. , 2016, , .		0
69	All-optical spatial light modulator for reconfigurable silicon photonic circuits. Optica, 2016, 3, 396.	4.8	47
70	Tunable repetition rate VECSEL for resonant acoustic-excitation of nanostructures. Proceedings of SPIE, 2016, , .	0.8	2
71	Optical transmission matrix as a probe of the photonic strength. Physical Review A, 2016, 94, .	1.0	16
72	Antenna-assisted picosecond control of nanoscale phase transition in vanadium dioxide. Light: Science and Applications, 2016, 5, e16173-e16173.	7.7	87

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73	Optimised atmospheric pressure CVD of monoclinic VO ₂ thin films with picosecond phase transition. Surface and Coatings Technology, 2016, 287, 160-165.	2.2	15
74	Fast Assembly of Gold Nanoparticles in Large-Area 2D Nanogrids Using a One-Step, Near-Infrared Radiation-Assisted Evaporation Process. ACS Nano, 2016, 10, 2232-2242.	7.3	41
75	Dynamic control of chaotic resonators. , 2016, , .		0
76	Ultrafast control of plasmonic nanoantennas driven by hot-spot induced phase-transitions in VO ₂ . , 2016, , .		0
77	Nanoparticles for inhibition of in vitro tumour angiogenesis: synergistic actions of ligand function and laser irradiation. Biomaterials Science, 2015, 3, 733-741.	2.6	24
78	Electron beam lithography tri-layer lift-off to create ultracompact metal/metal oxide 2D patterns on CaF ₂ substrate for surface-enhanced infrared spectroscopy. Microelectronic Engineering, 2015, 141, 87-91.	1.1	7
79	New plasmonic materials and fabrication tools for near- and mid-infrared sensing and spectroscopy. , 2015, , .		3
80	Quantification of misalignment in e-beam lithography due to height map error on optically non-uniform substrates for plasmonic nanoantennas. , 2015, , .		0
81	Highly Sensitive DNA Sensor Based on Upconversion Nanoparticles and Graphene Oxide. ACS Applied Materials & Interfaces, 2015, 7, 12422-12429.	4.0	168
82	Plasmonic nanoantenna coherent absorption switches for integrated photonics. , 2015, , .		0
83	Extreme Subwavelength Metal Oxide Direct and Complementary Metamaterials. ACS Photonics, 2015, 2, 606-614.	3.2	33
84	Picosecond optically reconfigurable filters exploiting full free spectral range tuning of single ring and Vernier effect resonators. Optics Express, 2015, 23, 12468.	1.7	11
85	Antenna resonances in low aspect ratio semiconductor nanowires. Optics Express, 2015, 23, 22771.	1.7	29
86	Tailoring Second-Harmonic Generation in Single L-Shaped Plasmonic Nanoantennas from the Capacitive to Conductive Coupling Regime. ACS Photonics, 2015, 2, 1592-1601.	3.2	49
87	Device-level characterization of the flow of light in integrated photonic circuits using ultrafast photomodulation spectroscopy. Nature Photonics, 2015, 9, 54-60.	15.6	44
88	Interactions of Skin with Gold Nanoparticles of Different Surface Charge, Shape, and Functionality. Small, 2015, 11, 713-721.	5.2	115
89	Coherent perfect absorption by plasmonic nanoantennas on SOI waveguides. , 2014, , .		0
90	Observation of intensity statistics of light transmitted through 3D random media. Optics Letters, 2014, 39, 6347.	1.7	6

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91	Ultrafine control of partially loaded single plasmonic nanoantennas fabricated using e-beam lithography and helium ion beam milling. , 2014, , .		1
92	Plasmonics and Metamaterials with Transparent Conducting Oxides. ECS Transactions, 2014, 64, 291-298.	0.3	3
93	An ultrafast reconfigurable nanophotonic switch using wavefront shaping of light in a nonlinear nanomaterial. Light: Science and Applications, 2014, 3, e207-e207.	7.7	41
94	Surface-Enhanced Infrared Spectroscopy Using Metal Oxide Plasmonic Antenna Arrays. Nano Letters, 2014, 14, 346-352.	4.5	175
95	Hotspot-mediated ultrafast nonlinear control of multifrequency plasmonic nanoantennas. Nature Communications, 2014, 5, 4869.	5.8	75
96	Optimal Polarization Conversion in Coupled Dimer Plasmonic Nanoantennas for Metasurfaces. ACS Nano, 2014, 8, 6390-6399.	7.3	81
97	Surface-Enhanced Infrared Spectroscopy using ultra-compact indium tin oxide (ITO) sensor arrays. , 2014, , .		1
98	All-optical ultrafast control of SOI waveguide elements employing localized absorption. , 2014, , .		0
99	Directed organization of gold nanoparticles in polymer coatings through infrared-assisted evaporative lithography. Chemical Communications, 2013, 49, 4253-4255.	2.2	14
100	Tailoring of YIG film properties via compositional tuning by multi-beam pulsed laser deposition. , 2013, , .		0
101	Ultrafast Nonlinear Control of Progressively Loaded, Single Plasmonic Nanoantennas Fabricated Using Helium Ion Milling. Nano Letters, 2013, 13, 5647-5653.	4.5	76
102	Hyperspectral darkfield microscopy of single hollow gold nanoparticles for biomedical applications. Physical Chemistry Chemical Physics, 2013, 15, 4163-4168.	1.3	50
103	Mesoscopic light transport by very strong collective multiple scattering in nanowire mats. Nature Photonics, 2013, 7, 413-418.	15.6	50
104	Manipulation of <i>in Vitro</i> Angiogenesis Using Peptide-Coated Gold Nanoparticles. ACS Nano, 2013, 7, 5628-5636.	7.3	89
105	Plasmonic Response of Ag and Au Infiltrated Cross-Linked Lysozyme Crystals. Advanced Functional Materials, 2013, 23, 281-290.	7.8	22
106	Plasmonic nanoantennas as integrated coherent perfect absorbers on SOI waveguides for modulators and all-optical switches. Optics Express, 2013, 21, 27652.	1.7	102
107	Molecular alignment induced ultraviolet femtosecond pulse modulation. Optics Express, 2013, 21, 27662.	1.7	10
108	Weak localization of photon noise. New Journal of Physics, 2013, 15, 105009.	1.2	4

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109	Single-nanoparticle detection and spectroscopy in cells using a hyperspectral darkfield imaging technique. , 2013, , .		3
110	Ultrafast plasmonics using transparent conductive oxide hybrids in the epsilon-near-zero regime. Applied Physics Letters, 2013, 102, .	1.5	75
111	Mesoscopic light trapping in random arrays of semiconductor nanowires. , 2013, , .		0
112	Towards nanoantenna electron switches. Annalen Der Physik, 2013, 525, A21.	0.9	2
113	Measurements on the optical transmission matrices of strongly scattering nanowire layers. , 2013, , .		1
114	Ultrafast adiabatic control of reciprocity and coherent backscattering in random scattering media. Proceedings of SPIE, 2013, , .	0.8	0
115	Role of light scattering in the performance of fluorescent solar collectors. Journal of Photonics for Energy, 2012, 2, 021801.	0.8	5
116	Functional nanoparticles in cells. Proceedings of SPIE, 2012, , .	0.8	0
117	Spatial modulation microscopy for real-time imaging of plasmonic nanoparticles and cells. Optics Letters, 2012, 37, 3015.	1.7	10
118	Transparent conducting oxides for active hybrid metamaterial devices. Journal of Optics (United Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 3	1.0	29
119	Formation and Plasmonic Response of Self-Assembled Layers of Colloidal Gold Nanorods and Branched Gold Nanoparticles. Langmuir, 2012, 28, 8874-8880.	1.6	12
120	Partial Nonlinear Reciprocity Breaking through Ultrafast Dynamics in a Random Photonic Medium. Physical Review Letters, 2012, 108, 223906.	2.9	21
121	Interference, Coupling, and Nonlinear Control of High-Order Modes in Single Asymmetric Nanoantennas. ACS Nano, 2012, 6, 6462-6470.	7.3	46
122	Ultrafast Plasmonic Nanoantenna-ITO Hybrid Switches. International Journal of Optics, 2012, 2012, 1-5.	0.6	4
123	Interactions of Human Endothelial Cells with Gold Nanoparticles of Different Morphologies. Small, 2012, 8, 122-130.	5.2	116
124	Hybrid Plasmonic Nanodevices for All-optical Control of Information. , 2012, , .		0
125	Broadband coherent backscattering spectroscopy of the interplay between order and disorder in three-dimensional opal photonic crystals. Physical Review B, 2011, 83, .	1.1	8
126	All-Optical Control of a Single Plasmonic Nanoantennaâ€“ITO Hybrid. Nano Letters, 2011, 11, 2457-2463.	4.5	259

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127	Laser-Induced Damage and Recovery of Plasmonically Targeted Human Endothelial Cells. Nano Letters, 2011, 11, 1358-1363.	4.5	50
128	Ultrafast active control of optical transmission pseudomodes in a multiple scattering nanowire layer. , 2011, , .		0
129	Modeling and experimental realization of nanoantenna hybrid optical switching devices. Proceedings of SPIE, 2011, , .	0.8	0
130	Gold nanoparticles in biomedical applications. , 2011, , .		0
131	Angle-resolved photon-coincidence measurements in a multiple-scattering medium. Physical Review A, 2011, 83, .	1.0	6
132	Angle dependence of the frequency correlation in random photonic media: Diffusive regime and its breakdown near localization. Physical Review B, 2011, 84, .	1.1	7
133	Ultrafast Dephasing of Light in Strongly Scattering GaP Nanowires. Physical Review Letters, 2011, 106, 143902.	2.9	10
134	Experimental studies on the mode structure of random lasers. Physical Review A, 2010, 81, .	1.0	29
135	Spatial Photon Correlations in Multiple Scattering Media. , 2010, , .		0
136	Photoconductively Loaded Plasmonic Nanoantenna as Building Block for Ultracompact Optical Switches. Nano Letters, 2010, 10, 1741-1746.	4.5	155
137	Plasmonic nanoantennas as building blocks for ultracompact photonic devices. , 2010, , .		0
138	Optical anisotropy of semiconductor nanowires. , 2009, , .		0
139	Broadband and Omnidirectional Antireflection Coatings Based on Semiconductor Nanorods. Advanced Materials, 2009, 21, 973-978.	11.1	243
140	Large Photonic Strength of Highly Tunable Resonant Nanowire Materials. Nano Letters, 2009, 9, 930-934.	4.5	149
141	Method for broadband spectroscopy of light transport through opaque scattering media. Optics Letters, 2009, 34, 395.	1.7	11
142	Electrodynamic calculations of spontaneous emission coupled to metal nanostructures of arbitrary shape: nanoantenna-enhanced fluorescence. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1569.	0.9	42
143	Enhanced light extraction from emitters close to clusters of resonant plasmonic nanoantennas. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 216-219.	1.7	7
144	Epitaxial Growth of Aligned Semiconductor Nanowire Metamaterials for Photonic Applications. Advanced Functional Materials, 2008, 18, 1039-1046.	7.8	56

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145	Design of Light Scattering in Nanowire Materials for Photovoltaic Applications. Nano Letters, 2008, 8, 2638-2642.	4.5	506
146	Broadband enhanced backscattering spectroscopy of strongly scattering media. Optics Express, 2008, 16, 1222.	1.7	31
147	Local and anisotropic excitation of surface plasmon polaritons by semiconductor nanowires. Optics Express, 2008, 16, 5013.	1.7	9
148	Optical extinction spectrum of a single metal nanoparticle: Quantitative characterization of a particle and of its local environment. Physical Review B, 2008, 78, .	1.1	80
149	Quantitative Absorption Spectroscopy of a Single Gold Nanorod. Journal of Physical Chemistry C, 2008, 112, 8917-8921.	1.5	149
150	Optical Anisotropy of Semiconductor Nanowires. , 2008, , 127-145.		5
151	Broadband Birefringence of GaP Nanowires. , 2007, , .		0
152	Modification of the photoluminescence anisotropy of semiconductor nanowires by coupling to surface plasmon polaritons. Optics Letters, 2007, 32, 2097.	1.7	8
153	Optical scattering resonances of single and coupled dimer plasmonic nanoantennas. Optics Express, 2007, 15, 17736.	1.7	146
154	Strong Enhancement of the Radiative Decay Rate of Emitters by Single Plasmonic Nanoantennas. Nano Letters, 2007, 7, 2871-2875.	4.5	481
155	Single metal nanoparticle absorption spectroscopy and optical characterization. Applied Physics Letters, 2006, 88, 063109.	1.5	80
156	Giant optical birefringence in ensembles of semiconductor nanowires. Applied Physics Letters, 2006, 89, 233117.	1.5	66
157	DÃ©tection et caractÃ©risation optiques d'une nanoparticule mÃ©tallique isolÃ©e. European Physical Journal Special Topics, 2006, 135, 43-50.	0.2	0
158	Femtosecond Response of a Single Metal Nanoparticle. Nano Letters, 2006, 6, 552-556.	4.5	165
159	Optical response of a single noble metal nanoparticle. Journal of Optics, 2006, 8, S264-S272.	1.5	63
160	Optical spectroscopy of metal nanoparticles: single particle detection (Invited Paper). , 2005, , .		1
161	Absorption spectroscopy and identification of single metal nanoparticles. , 2005, , .		0
162	Interactions of ultrashort strain solitons and terahertz electronic two-level systems in photoexcited ruby. Physical Review B, 2005, 71, .	1.1	9

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163	High-Amplitude, Ultrashort Strain Solitons in Solids. , 2005, , 15-48.		0
164	Coherent Interactions of Terahertz Strain Solitons and Electronic Two-Level Systems in Photoexcited Ruby. Physical Review Letters, 2004, 92, 035503.	2.9	45
165	Inelastic light scattering by trains of ultrashort acoustic solitons in sapphire. Physical Review B, 2004, 70, .	1.1	16
166	Trains of ultrashort acoustic solitons. Physica Status Solidi (B): Basic Research, 2004, 241, 3469-3473.	0.7	1
167	Towards ultrafast pump-probe spectroscopy on trains of strain solitons. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2753-2756.	0.8	3
168	The 29-cm ⁻¹ ruby phonon detector as a probe for ultrashort strain solitons. Journal of Luminescence, 2004, 108, 281-284.	1.5	1
169	Ultrashort strain soliton formation in sapphire and ruby. Journal of Luminescence, 2004, 108, 297-299.	1.5	1
170	Development of trains of ultrashort strain solitons in sapphire and ruby. , 2004, 5352, 144.		0
171	High Amplitude, Ultrashort, Longitudinal Strain Solitons in Sapphire. Physical Review Letters, 2002, 89, 285504.	2.9	59
172	Propagation of ultrashort acoustic wave packets in PbMoO ₄ studied by Brillouin spectroscopy. Physica B: Condensed Matter, 2002, 316-317, 373-376.	1.3	4
173	Dynamics of vibrations in a mixed amorphous-nanocrystalline Si system. Physical Review B, 2001, 64, .	1.1	15
174	Phonon dynamics in amorphous and nanocrystalline silicon. Journal of Luminescence, 1999, 83-84, 161-165.	1.5	0