

# Rainer F Mahrt

## List of Publications by Year in descending order

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155  
papers

9,320  
citations

53751

45  
h-index

38368

95  
g-index

158  
all docs

158  
docs citations

158  
times ranked

9130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient two layer leds on a polymer blend basis. <i>Advanced Materials</i> , 1995, 7, 551-554.	11.1	1,523
2	Bright triplet excitons in caesium lead halide perovskites. <i>Nature</i> , 2018, 553, 189-193.	13.7	716
3	Room-temperature Bose-Einstein condensation of cavity exciton-polaritons in a polymer. <i>Nature Materials</i> , 2014, 13, 247-252.	13.3	540
4	Superfluorescence from lead halide perovskite quantum dot superlattices. <i>Nature</i> , 2018, 563, 671-675.	13.7	416
5	Femtosecond energy relaxation in $\pi$ -conjugated polymers. <i>Physical Review Letters</i> , 1993, 70, 3820-3823.	2.9	410
6	Aggregate fluorescence in conjugated polymers. <i>Chemical Physics Letters</i> , 1995, 240, 373-378.	1.2	384
7	Ultrafast Field-Induced Dissociation of Excitons in Conjugated Polymers. <i>Physical Review Letters</i> , 1994, 73, 1440-1443.	2.9	310
8	Single Cesium Lead Halide Perovskite Nanocrystals at Low Temperature: Fast Single-Photon Emission, Reduced Blinking, and Exciton Fine Structure. <i>ACS Nano</i> , 2016, 10, 2485-2490.	7.3	299
9	Conjugated polymers: lasing and stimulated emission. <i>Current Opinion in Solid State and Materials Science</i> , 2001, 5, 143-154.	5.6	200
10	Conformational effects in poly(p-phenylene vinylene)s revealed by low-temperature site-selective fluorescence. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 247-260.	0.7	189
11	A room-temperature organic polariton transistor. <i>Nature Photonics</i> , 2019, 13, 378-383.	15.6	176
12	Perovskite-type superlattices from lead halide perovskite nanocubes. <i>Nature</i> , 2021, 593, 535-542.	13.7	152
13	Probing the Wave Function Delocalization in CdSe/CdS Dot-in-Rod Nanocrystals by Time- and Temperature-Resolved Spectroscopy. <i>ACS Nano</i> , 2011, 5, 4031-4036.	7.3	148
14	Quaterrylenebis(dicarboximide)s: near infrared absorbing and emitting dyes. <i>Journal of Materials Chemistry</i> , 1998, 8, 2357-2369.	6.7	124
15	Time resolved luminescence study of recombination processes in electroluminescent polymers. <i>Applied Physics Letters</i> , 1993, 62, 2827-2829.	1.5	110
16	SU-8 for real three-dimensional subdiffraction-limit two-photon microfabrication. <i>Applied Physics Letters</i> , 2004, 84, 4095-4097.	1.5	103
17	Monte Carlo study of picosecond exciton relaxation and dissociation in poly(phenylenevinylene). <i>Physical Review B</i> , 1996, 54, 5536-5544.	1.1	99
18	Progress towards processible materials for light-emitting devices using poly(p-phenylphenylenevinylene). <i>Advanced Materials</i> , 1992, 4, 661-662.	11.1	94

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19	Dynamics of optical excitations in a ladder-type $\pi$ -conjugated polymer containing aggregate states. <i>Physical Review B</i> , 1996, 54, 1759-1765.	1.1	94
20	Dynamics of singlet excitations in conjugated polymers: Poly(phenylenevinylene) and poly(phenylphenylenevinylene). <i>Physical Review B</i> , 1994, 50, 10769-10779.	1.1	93
21	Microcavity effects in a spin-coated polymer two-layer system. <i>Applied Physics Letters</i> , 1995, 66, 1301-1303.	1.5	91
22	A Surface-Emitting Circular Grating Polymer Laser. <i>Advanced Materials</i> , 2001, 13, 1161-1164.	11.1	82
23	Enhanced Dipole-Dipole Interaction in a Polymer Microcavity. <i>Physical Review Letters</i> , 1999, 82, 4118-4121.	2.9	80
24	Electroluminescence from polymer blends and molecularly doped polymers. <i>Synthetic Metals</i> , 1994, 64, 141-145.	2.1	79
25	Field-induced exciton breaking in conjugated polymers. <i>Physical Review B</i> , 1995, 52, 4932-4940.	1.1	79
26	Majority carrier injection from ITO anodes into organic light-emitting diodes based upon polymer blends. <i>Synthetic Metals</i> , 1995, 68, 263-268.	2.1	78
27	On-Chip Integrated Quantum-Dot Silicon-Nitride Microdisk Lasers. <i>Advanced Materials</i> , 2017, 29, 1604866.	11.1	77
28	Single-photon nonlinearity at room temperature. <i>Nature</i> , 2021, 597, 493-497.	18.7	77
29	Energy Transfer in Hybrid Organic/Inorganic Nanocomposites. <i>Nano Letters</i> , 2009, 9, 453-456.	4.5	75
30	Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr <sub>3</sub> Nanocrystals and Their Superfluorescent Assemblies. <i>ACS Central Science</i> , 2021, 7, 135-144.	5.3	75
31	Nearly Temperature-Independent Threshold for Amplified Spontaneous Emission in Colloidal CdSe/CdS Quantum Dot-in-Rods. <i>Advanced Materials</i> , 2012, 24, OP231-5.	11.1	74
32	Femtosecond dynamics of stimulated emission and photoinduced absorption in a PPP-type ladder polymer. <i>Chemical Physics Letters</i> , 1995, 244, 171-176.	1.2	73
33	Band structure engineering via piezoelectric fields in strained anisotropic CdSe/CdS nanocrystals. <i>Nature Communications</i> , 2015, 6, 7905.	5.8	65
34	Two-Photon Pumped Lasing from a Two-Dimensional Photonic Bandgap Structure with Polymeric Gain Material. <i>Advanced Materials</i> , 2002, 14, 673-676.	11.1	62
35	Picosecond hopping relaxation in conjugated polymers. <i>Chemical Physics Letters</i> , 1993, 209, 243-246.	1.2	60
36	Band-Edge Exciton Fine Structure of Small, Nearly Spherical Colloidal CdSe/ZnS Quantum Dots. <i>ACS Nano</i> , 2011, 5, 8033-8039.	7.3	60

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37	Long Exciton Dephasing Time and Coherent Phonon Coupling in CsPbBr <sub>2</sub> Cl Perovskite Nanocrystals. Nano Letters, 2018, 18, 7546-7551.	4.5	60
38	Electro-optical studies of a soluble conjugated polymer with particularly low intrachain disorder. Physical Review B, 1999, 60, 8650-8658.	1.1	57
39	Site-selective fluorescence studies on polysilylenes. Chemical Physics, 1991, 150, 81-91.	0.9	54
40	Disorder influenced optical properties of $\hat{\pm}$ -sexithiophene single crystals and thin evaporated films. Chemical Physics, 1998, 227, 49-56.	0.9	54
41	Lasing Supraparticles Self-Assembled from Nanocrystals. ACS Nano, 2018, 12, 12788-12794.	7.3	51
42	Exciton versus band description of the absorption, luminescence and electro-absorption of poly(phenylphenylenevinylene) and poly(dodecylthiophene). Synthetic Metals, 1992, 49, 341-352.	2.1	50
43	Electroluminescence from phenylenevinylene-based polymer blends. Advanced Materials for Optics and Electronics, 1993, 2, 197-204.	0.5	48
44	Controlling the Exciton Fine Structure Splitting in CdSe/CdS Dot-in-Rod Nanojunctions. ACS Nano, 2012, 6, 1979-1987.	7.3	48
45	Observation of strong exciton-photon coupling in an organic microcavity. Chemical Physics Letters, 2001, 344, 352-356.	1.2	47
46	The optical gain mechanism in solid conjugated polymers. Applied Physics Letters, 1998, 72, 2933-2935.	1.5	46
47	Energy transfer in molecularly doped conjugated polymers. Synthetic Metals, 1996, 78, 289-293.	2.1	44
48	A blue light emitting polymer with phenylenevinylene segments in the side-chains. Advanced Materials, 1995, 7, 388-390.	11.1	43
49	Picosecond time resolved photoluminescence spectroscopy of a tetracene film on highly oriented pyrolytic graphite: Dynamical relaxation, trap emission, and superradiance. Journal of Chemical Physics, 2007, 127, 114705.	1.2	43
50	Laser emission from a solid conjugated polymer: Gain, tunability, and coherence. Physical Review B, 1998, 57, R4218-R4221.	1.1	41
51	Evidence for bandedge lasing in a two-dimensional photonic bandgap polymer laser. Applied Physics Letters, 2002, 80, 734-736.	1.5	41
52	Electric field-induced fluorescence quenching and transient fluorescence studies in poly(p-terphenylene vinylene) related polymers. Chemical Physics, 1998, 227, 167-178.	0.9	39
53	Vertical microcavities with high $Q$ and strong lateral mode confinement. Physical Review B, 2013, 87, .	1.1	37
54	Light and heavy excitonic polarons in conjugated polymers. Synthetic Metals, 1991, 45, 107-117.	2.1	36

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55	Lasing in organic circular grating structures. <i>Journal of Applied Physics</i> , 2004, 96, 3043-3049.	1.1	34
56	Ultrafast all-optical modulator with femtojoule absorbed switching energy in silicon-on-insulator. <i>Optics Express</i> , 2010, 18, 22485.	1.7	34
57	Room-Temperature Exciton-Polariton Condensation in a Tunable Zero-Dimensional Microcavity. <i>ACS Photonics</i> , 2018, 5, 85-89.	3.2	33
58	Spontaneous and stimulated emission from a ladder-type conjugated polymer. <i>Physical Review B</i> , 1999, 59, 4112-4118.	1.1	32
59	Integrated all-optical switch in a cross-waveguide geometry. <i>Applied Physics Letters</i> , 2006, 88, 171104.	1.5	32
60	Excitation dynamics in conjugated polymers. <i>Pure and Applied Chemistry</i> , 1995, 67, 377-385.	0.9	31
61	The Origin of Photoluminescence from $\hat{\pm}$ -Sexithienyl Thin Films. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7563-7567.	1.2	31
62	The dynamics of gain-narrowing in a ladder-type $\hat{\pi}$ -conjugated polymer. <i>Chemical Physics Letters</i> , 1999, 312, 376-384.	1.2	31
63	Time-resolved studies of two-photon absorption processes in poly(p-phenylenevinylene)s. <i>Chemical Physics Letters</i> , 1993, 203, 28-32.	1.2	29
64	Dynamics of excitation transfer in dye doped $\hat{\pi}$ -conjugated polymers. <i>Chemical Physics Letters</i> , 1995, 245, 534-538.	1.2	29
65	Resonant energy transfer within a colloidal nanocrystal polymer host system. <i>Applied Physics Letters</i> , 2007, 90, 071108.	1.5	28
66	Plasmonic Nanohybrid with Ultrasmall Ag Nanoparticles and Fluorescent Dyes. <i>ACS Nano</i> , 2011, 5, 3536-3541.	7.3	28
67	Zero-Dimensional Organic Exciton-Polaritons in Tunable Coupled Gaussian Defect Microcavities at Room Temperature. <i>ACS Photonics</i> , 2016, 3, 1542-1545.	3.2	28
68	Polarization-sensitive photoconductivity in aligned polyfluorene layers. <i>Applied Physics Letters</i> , 2002, 80, 4699-4701.	1.5	27
69	Organic mixed-order photonic crystal lasers with ultrasmall footprint. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	25
70	Dye Molecules Encapsulated in a Micelle Structure: Nano-Aggregates with Enhanced Optical Properties. <i>Advanced Materials</i> , 2010, 22, 3681-3684.	11.1	25
71	Shape-Directed Co-Assembly of Lead Halide Perovskite Nanocubes with Dielectric Nanodisks into Binary Nanocrystal Superlattices. <i>ACS Nano</i> , 2021, 15, 16488-16500.	7.3	25
72	Two-photon fluorescence and femtosecond two-photon absorption studies of MeLPPP, a ladder-type poly(phenylene) with low intra-chain disorder. <i>Chemical Physics Letters</i> , 1999, 313, 755-762.	1.2	24

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73	Dependence of Rabi-splitting on the spatial position of the optically active layer in organic microcavities in the strong coupling regime. <i>Chemical Physics</i> , 2002, 285, 113-120.	0.9	23
74	Exciton Dynamics within the Band-Edge Manifold States: The Onset of an Acoustic Phonon Bottleneck. <i>Nano Letters</i> , 2012, 12, 5224-5229.	4.5	23
75	Relaxation dynamics of excitons in thin quaterthiophene films on different substrates. <i>Chemical Physics Letters</i> , 1999, 314, 9-15.	1.2	22
76	Nonequilibrium polariton dynamics in organic microcavities. <i>Physical Review B</i> , 2002, 66, .	1.1	22
77	Unraveling the Origin of the Long Fluorescence Decay Component of Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2020, 14, 14939-14946.	7.3	22
78	Tunable exciton-polariton condensation in a two-dimensional Lieb lattice at room temperature. <i>Communications Physics</i> , 2021, 4, .	2.0	22
79	Ultracompact Silicon/Polymer Laser with an Absorption-Insensitive Nanophotonic Resonator. <i>Nano Letters</i> , 2010, 10, 3675-3678.	4.5	20
80	Control of the Emission Properties of Conjugated Polymers: Trapping and Microcavity Effects. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 256, 335-342.	0.3	19
81	Enhanced feedback in organic photonic-crystal lasers. <i>Applied Physics Letters</i> , 2005, 87, 151121.	1.5	19
82	Spectroscopy of Conjugated Polymers. <i>Zeitschrift Fur Physikalische Chemie</i> , 1994, 184, 233-252.	1.4	18
83	Structural Diversity in Multicomponent Nanocrystal Superlattices Comprising Lead Halide Perovskite Nanocubes. <i>ACS Nano</i> , 2022, 16, 7210-7232.	7.3	18
84	Observation of interface excitons and energy transfer processes in an oligo-thiophene multi-layer structure. <i>Chemical Physics Letters</i> , 1995, 242, 207-211.	1.2	17
85	Control of the interaction strength of photonic molecules by nanometer precise 3D fabrication. <i>Scientific Reports</i> , 2017, 7, 16502.	1.6	17
86	Circular Grating Resonators as Small Mode-Volume Microcavities for Switching. <i>Optics Express</i> , 2009, 17, 5953.	1.7	16
87	Enhanced Room-Temperature Photoluminescence Quantum Yield in Morphology Controlled Aggregates. <i>Advanced Science</i> , 2021, 8, 1903080.	5.6	16
88	Blue-green laser emission from a solid conjugated polymer. <i>Solid State Communications</i> , 1997, 104, 759-762.	0.9	15
89	Polarized Photoluminescence and Spectral Narrowing in an Oriented Polyfluorene Thin Film. <i>ChemPhysChem</i> , 2000, 1, 142-146.	1.0	15
90	Integrated vertical microcavity using a nano-scale deformation for strong lateral confinement. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	15

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91	Exciton Dynamics and Effects of Structural Order in Morphology-Controlled $\pi$ -Aggregate Assemblies. <i>Advanced Functional Materials</i> , 2019, 29, 1806997.	7.8	15
92	Hampered excimer formation in a perylene derivative with bulky functional groups. <i>Chemical Physics Letters</i> , 2001, 341, 213-218.	1.2	14
93	Analytical calculation of the Q factor for circular-grating microcavities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 906.	0.9	14
94	Design and optical characterization of photonic crystal lasers with organic gain material. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 065003.	1.0	14
95	Enhancement of the mode coupling in photonic-crystal-based organic lasers. <i>Journal of Optics</i> , 2005, 7, S230-S234.	1.5	12
96	Impact of the Band-Edge Fine Structure on the Energy Transfer between Colloidal Quantum Dots. <i>Advanced Optical Materials</i> , 2014, 2, 126-130.	3.6	12
97	Conjugated polymer lasers: emission characteristics and gain mechanism. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1795-1800.	1.3	11
98	Observation of strong exciton-photon coupling in an organic microcavity in transmission and photoluminescence. <i>Journal of Luminescence</i> , 2001, 94-95, 821-826.	1.5	11
99	Control of Fano line shapes by means of photonic crystal structures in a dye-doped polymer. <i>Applied Physics Letters</i> , 2007, 90, 201105.	1.5	11
100	Low-loss optical waveguides made with a high-loss material. <i>Light: Science and Applications</i> , 2021, 10, 15.	7.7	11
101	Spectroscopic assessment of the role of disorder and polaron formation on electronic transport in molecularly doped polymers. <i>Chemical Physics Letters</i> , 1992, 192, 576-580.	1.2	8
102	Fabrication and characterization of Ta <sub>2</sub> O <sub>5</sub> photonic feedback structures. <i>Microelectronic Engineering</i> , 2008, 85, 1425-1428.	1.1	8
103	Optical and electroemission properties of thin films of supermolecular anthracene-based rotaxanes. <i>Applied Surface Science</i> , 2001, 175-176, 369-373.	3.1	7
104	Ultra-high quality-factor resonators with perfect azimuthal modal-symmetry. <i>Optics Express</i> , 2009, 17, 20998.	1.7	7
105	Microresonator effects in optically and electrically pumped thin-film light-emitting diodes. <i>Synthetic Metals</i> , 1996, 83, 257-260.	2.1	6
106	Excitation dynamics in $\beta$ -sexithiophene single crystals and UHV-grown films. <i>Journal of Luminescence</i> , 1998, 76-77, 416-419.	1.5	6
107	A Tunable Blue-Green Laser from a Solid Conjugated Polymer. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 437-441.	0.7	6
108	Site-selection spectroscopy of poly(di-n-butylgermylene) (PDBG). <i>Chemical Physics Letters</i> , 1991, 177, 389-393.	1.2	5

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109	Ultrafast Fluorescence Spectroscopy of PPV. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 256, 9-16.	0.3	5
110	<title>Excitation dynamics in conjugated polymers</title>. , 1995, , .		4
111	Field-induced dissociation of optical excitations in conjugated polymers. <i>Journal of Non-Crystalline Solids</i> , 1996, 198-200, 661-664.	1.5	4
112	Femtosecond Differential Transmission Spectroscopy of $\hat{I}\pm$ -Sexithienyl Single Crystals at Low Temperature. <i>Journal of Physical Chemistry B</i> , 2000, 104, 12210-12214.	1.2	4
113	Femtosecond Differential Transmission Spectroscopy of $\hat{I}\pm$ -Sexithienyl Thin Film at Low Temperature. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6536-6540.	1.2	4
114	Photophysical properties of thin films and solid phase of switchable supermolecular anthracene-based rotaxanes. <i>Synthetic Metals</i> , 2001, 122, 63-65.	2.1	4
115	CONTROL OF THE ENERGY TRANSFER WITH THE OPTICAL MICROCAVITY. <i>International Journal of Modern Physics B</i> , 2001, 15, 3704-3708.	1.0	4
116	Integrated Silicon Nitride Microdisk Lasers Based on Quantum Dots. , 2016, , .		4
117	Vibronic hole burning in acene-doped MTHF glasses. <i>Chemical Physics Letters</i> , 1990, 165, 125-130.	1.2	3
118	Time resolved luminescence spectroscopy of conjugated polymers. <i>Journal of Luminescence</i> , 1994, 60-61, 479-481.	1.5	3
119	Femtosecond differential transmission spectroscopy of $\hat{I}\pm$ -sexithienyl thin film. <i>Journal of Luminescence</i> , 2000, 87-89, 736-738.	1.5	3
120	Charge-induced dephasing in thin polythiophene films. <i>Physical Review B</i> , 2001, 64, .	1.1	3
121	Lasing in interferometrically structured organic materials. <i>Applied Physics Letters</i> , 2005, 87, 241124.	1.5	3
122	Enhanced feedback and experimental band mapping of organic photonic-crystal lasers. <i>Journal of Optics</i> , 2006, 8, S273-S277.	1.5	3
123	A pump-and-probe method for the characterization of nonlinear material parameters within Fabry-PÃ©rot microcavities. <i>Journal of Applied Physics</i> , 2006, 100, 043112.	1.1	3
124	Polarization-Independent Photodetectors With Enhanced Responsivity in a Standard Silicon-on-Insulator Complementary Metalâ€“Oxideâ€“Semiconductor Process. <i>Journal of Lightwave Technology</i> , 2009, 27, 4892-4896.	2.7	3
125	Organic nonlinear Kerr materials in Fabry-Perot cavities for all optical switching. , 2006, 6128, 202.		2
126	Exciton-polariton Bose-Einstein condensation with a polymer at room temperature. , 2015, , .		2



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127	All-Optical Exciton-Polariton Transistor at Room Temperature. , 2019, , .		2
128	Optical characterization of tris-(stilbene)amine and application in microcavities. Synthetic Metals, 1996, 76, 117-119.	2.1	1
129	Organic heteromultilayers: electronic structure of sexithienyl/ thin films grown in ultra-high vacuum. Journal of Optics, 1998, 7, 151-157.	0.5	1
130	Femtosecond Transient Absorption Spectroscopy in $\hat{\pm}$ -sexithienyl thin films. Synthetic Metals, 1999, 101, 555-556.	2.1	1
131	In-Plane Coupling into Circular-Grating Resonators for All-Optical Switching. , 2006, , .		1
132	Circular Grating Resonators as Micro-Cavities for Optical Modulators. , 2007, , .		1
133	Ultra-small footprint photonic crystal lasers with organic gain material. , 2008, , .		1
134	Energy transfer in hybrid organic/inorganic nanocomposites. , 2009, , .		1
135	Tunable laser emission from a solid conjugated polymer. , 0, , .		0
136	<title>Gain mechanisms in conjugated polymer lasers</title>. , 1998, , .		0
137	The effect of intermolecular interaction on the electronic properties of quaterylene. Synthetic Metals, 1999, 102, 1589-1590.	2.1	0
138	Observation of Phonon Resonances in the Optical Nonlinearity in an $\hat{?}$ -Sexithienyl Thin Film. Physica Status Solidi (B): Basic Research, 2000, 221, 561-565.	0.7	0
139	Time-resolved stimulated emission in an $\hat{\pm}$ -sexithienyl thin film. Synthetic Metals, 2001, 116, 49-51.	2.1	0
140	<title>Circular dielectric gratings acting as resonators for solid state polymer lasers</title>. , 2001, , .		0
141	Solid-state optical properties of the methyl-exopyridine $\hat{\text{a}}$ anthracene rotaxane. Chemical Physics, 2001, 269, 381-388.	0.9	0
142	One- and two-photon lasing in an organic 2-D photonic band gap structure. , 0, , .		0
143	Lasing in a 2D photonic bandgap structure. , 2004, , .		0
144	Photonic engineering of nonlinear-optical properties of hybrid materials for efficient ultrafast optical switching (PHOENIX). , 2004, 5464, 39.		0

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145	Feedback enhancement in lasers with organic gain material. , 2005, , .		0
146	Circular grating resonators as candidates for ultra-small photonic devices. Proceedings of SPIE, 2008, , .	0.8	0
147	Circular grating resonators as nano-photonic modulators. , 2008, , .		0
148	Silicon photonic microcavities for optical switching. , 2009, , .		0
149	Lasing from defect states in mixed-order organic laser structures. Proceedings of SPIE, 2010, , .	0.8	0
150	Fantastic plastic makes the quantum leap. Europhysics News, 2014, 45, 23-26.	0.1	0
151	Quantum fluids in solid materials. Materials Today, 2014, 17, 258-259.	8.3	0
152	Creating a quantum fluid in a polymer. SPIE Newsroom, 0, , .	0.1	0
153	Superfluorescence from Lead Halide Perovskite Quantum Dot Superlattices. , 0, , .		0
154	Tunable Nanoscale defect Cavities for Exciton-Polariton Condensates at Room Temperature. , 0, , .		0
155	Bright Triplet Emission from Lead Halide Perovskite Nanocrystals. , 0, , .		0