

# Ali Rostami

## List of Publications by Year in descending order

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284  
papers

2,274  
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304743

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395702

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296  
all docs

296  
docs citations

296  
times ranked

1486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar cells efficiency enhancement using multilevel selective energy contacts (SECs). Optical and Quantum Electronics, 2022, 54, 1.	3.3	8
2	Optical Modeling and Characterization of Demyelinated Nerve Using Graphene-Based Photonic Structure. IEEE Access, 2022, 10, 28792-28807.	4.2	1
3	Analysis and Simulation of the Optical Properties of a Quantum Dot on a Graphene Nanoribbon System. Photonics, 2022, 9, 220.	2.0	2
4	Theoretical modelling of high-efficiency perovskite solar cells and reduction of internal heat generation using hot-electron extraction. Optical and Quantum Electronics, 2022, 54, 1.	3.3	0
5	Multi-clad optical fiber design for ultra-wideband modulation instability. Physica Scripta, 2022, 97, 045501.	2.5	2
6	A Proposal for Optical Antenna in VLC Communication Receiver System. Photonics, 2022, 9, 241.	2.0	4
7	Modulation instability and highly sensitive optical fiber biosensor. , 2022, 1, 816.		1
8	High-Resolution Color Transparent Display Using Superimposed Quantum Dots. Nanomaterials, 2022, 12, 1423.	4.1	0
9	Selective band amplification in ultra-broadband superimposed quantum dot reflective semiconductor optical amplifiers. Applied Optics, 2022, 61, 4509.	1.8	3
10	Interaction between Graphene Nanoribbon and an Array of QDs: Introducing Nano Grating. Photonics, 2022, 9, 348.	2.0	1
11	Overcoming the temperature effect on a single junction and intermediate band solar cells using an optical filter and energy selective contacts. Optical and Quantum Electronics, 2022, 54, .	3.3	3
12	Quantum Dot Reflective Semiconductor Optical Amplifiers: Optical Pumping Compared with Electrical Pumping. Nanomaterials, 2022, 12, 2143.	4.1	1
13	Color transparent monitor using nanoparticles with electrically tunable viewing angle. Optical and Quantum Electronics, 2022, 54, .	3.3	0
14	Color Transparent Monitor using Si/SiO <sub>2</sub> Core-Shell Nanoparticles: Optimum Color Selection. Optical and Quantum Electronics, 2022, 54, .	3.3	0
15	Excellent properties of cylindrical quantum dots for the design of hot-carrier assisted IBSCs with appropriate ESCs. Optical and Quantum Electronics, 2022, 54, .	3.3	1
16	A proposal for optomechanical bichromatic wavelength switching for two-color up-conversion application. Optical and Quantum Electronics, 2022, 54, .	3.3	1
17	Performance analysis of organic solar cells: Opto-electrical modeling and simulation. Engineering Science and Technology, an International Journal, 2021, 24, 229-235.	3.2	6
18	Performance enhancement of an all-optical XOR gate using quantum-dot based reflective semiconductor optical amplifiers in a folded Mach-Zehnder interferometer. Optics and Laser Technology, 2021, 135, 106628.	4.6	10

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19	High-speed and high-precision PbSe/PbI <sub>2</sub> solution process mid-infrared camera. Scientific Reports, 2021, 11, 1533.	3.3	15
20	A perfect electrically tunable graphene-based metamaterial absorber. Journal of Computational Electronics, 2021, 20, 864-872.	2.5	9
21	Efficiency enhancement in a single bandgap silicon solar cell considering hot-carrier extraction using selective energy contacts. Optics Express, 2021, 29, 5068.	3.4	5
22	Comparative study of transparent display using Gaussian arrays of SiO <sub>2</sub> core-shell nanoparticles and Gaussian radius of nanoparticles. Optical and Quantum Electronics, 2021, 53, 1.	3.3	2
23	Broadband terahertz absorber using superimposed graphene quantum dots. Optical and Quantum Electronics, 2021, 53, 1.	3.3	2
24	Optimization of power conversion efficiency in multi-band solar cells (theoretical investigation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	3.3	7
25	Effect of different pixel structures on quality of the transparent display implemented by nanoparticles. Optical and Quantum Electronics, 2021, 53, 1.	3.3	2
26	Construction of 1D perovskite nanowires by Urotropin passivation towards efficient and stable perovskite solar cell. Solar Energy Materials and Solar Cells, 2021, 227, 111119.	6.2	18
27	Design and Simulation of Terahertz Perfect Absorber with Tunable Absorption Characteristic Using Fractal-Shaped Graphene Layers. Photonics, 2021, 8, 375.	2.0	6
28	Ultrabroadband reflective semiconductor optical amplifier using superimposed quantum dots. Journal of Nanophotonics, 2021, 15, .	1.0	1
29	High performance plasmonically enhanced graphene photodetector for near-infrared wavelengths. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 3474.	2.1	4
30	Selective Energy Contacts and Multi-Wavelength Solution-Processed Quantum Dot Infrared Photodetector. IEEE Journal of Quantum Electronics, 2021, 57, 1-8.	1.9	1
31	Phononic crystal locally-resonant cavity for sensing metallic oxides nano-powders. International Journal of Mechanical Sciences, 2021, 207, 106658.	6.7	5
32	Highly Efficient Dual Band Graphene Plasmonic Photodetector at Optical Communication Wavelengths. IEEE Nanotechnology Magazine, 2021, 20, 255-261.	2.0	12
33	Room Temperature Chemiresistor H <sub>2</sub> S Gas Sensor based on ZnS/PbS Core-Shell Quantum Dots. , 2021, , .		2
34	Design and Optimization of Graphene Quantum Dot-based Luminescent Solar Concentrator Using Monte-Carlo Simulation. Energy and Built Environment, 2021, , .	5.9	3
35	Generalized coupled mode theory in phononic slab waveguides. Optik, 2021, 249, 168222.	2.9	0
36	Electrically Tunable Perfect Terahertz Absorber Using Embedded Comblined Graphene Layer. Applied Sciences (Switzerland), 2021, 11, 10961.	2.5	5

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37	A proposal for wide range wavelength switching process using optical force. Physica Scripta, 2021, 96, 125537.	2.5	1
38	Wideband Steady-State and Pulse Propagation Modeling of a Reflective Quantum-Dot Semiconductor Optical Amplifier. Journal of Lightwave Technology, 2020, 38, 797-803.	4.6	21
39	Multi-wavelength solution-processed quantum dot laser. Optics Communications, 2020, 457, 124629.	2.1	11
40	A proposal for realization of MIR to NIR up-conversion process based on nano-optomechanical system. Physica B: Condensed Matter, 2020, 580, 411933.	2.7	2
41	Comparative study of transparent display using aperiodic arrays of SiO <sub>2</sub> core-shell nanoparticles. Optical and Quantum Electronics, 2020, 52, 1.	3.3	6
42	Investigation of the effective operational parameters of self-cleaning glass surface coating to improve methylene blue removal efficiency; application in solar cells. Solar Energy, 2020, 207, 398-408.	6.1	16
43	p-Phenylenediaminium iodide capping agent enabled self-healing perovskite solar cell. Scientific Reports, 2020, 10, 20011.	3.3	20
44	Introducing New Conjugated Quantum Dots for Photothermal Therapy in Biological Applications. Plasmonics, 2020, 15, 1565-1575.	3.4	2
45	Ultra High-efficiency Integrated Mid Infrared to Visible Up-conversion System. Scientific Reports, 2020, 10, 9325.	3.3	16
46	Effect of morphology of nanoparticles on performance of transparent display. Optical and Quantum Electronics, 2020, 52, 1.	3.3	9
47	Ultra-high-efficiency luminescent solar concentrator using superimposed colloidal quantum dots. Optical and Quantum Electronics, 2020, 52, 1.	3.3	8
48	Switchable Multi-Color Solution-Processed QD-laser. Scientific Reports, 2020, 10, 5273.	3.3	8
49	Terahertz band pass filter design using multilayer metamaterials. Optical and Quantum Electronics, 2020, 52, 1.	3.3	32
50	Management of losses (thermalization-transmission) in the Si-QDs inside 3C-SiC to design an ultra-high-efficiency solar cell. Materials Science in Semiconductor Processing, 2020, 109, 104936.	4.0	21
51	Nanoantenna with electrically tunable radiation pattern. Optical and Quantum Electronics, 2020, 52, 1.	3.3	0
52	Selective H <sub>2</sub> Gas Sensor based on the planar microwave resonator and CuO quantum dots. , 2020, , .		1
53	Aperiodic graphene ribbons in MOSFET topology for multi-wavelength terahertz generation. Optical and Quantum Electronics, 2019, 51, 1.	3.3	2
54	Effects of insertion loss, laser profile and inhomogeneity of dots distribution on properties of all-optical modulator based on GaN/AlN quantum dots. Optical and Quantum Electronics, 2019, 51, 1.	3.3	0

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55	Radiation pattern direction control in nano-antenna (tunable nano-antenna). Optical and Quantum Electronics, 2019, 51, 1.	3.3	7
56	Ultra-broadband Optical Gain Engineering in Solution-processed QD-SOA Based on Superimposed Quantum Structure. Scientific Reports, 2019, 9, 12919.	3.3	16
57	Solution-processed QD-LEDs in visible range: Modulation bandwidth enhancement. Physica B: Condensed Matter, 2019, 574, 411667.	2.7	8
58	Two-Color Terahertz Radiation Emission in Quasi-Periodic Smith-Purcell Structures. IEEE Transactions on Plasma Science, 2019, 47, 3344-3351.	1.3	2
59	Trap engineering in solution processed PbSe quantum dots for high-speed MID-infrared photodetectors. Journal of Materials Chemistry C, 2019, 7, 5658-5669.	5.5	36
60	Generation of two-color terahertz radiation using Smith-Purcell emitter and periodic dielectric layers. Optical and Quantum Electronics, 2019, 51, 1.	3.3	6
61	Transparent Display using a quasi-array of Si-SiO <sub>2</sub> Core-Shell Nanoparticles. Scientific Reports, 2019, 9, 2293.	3.3	12
62	Radiation pattern control of core shell nanoantenna by manipulation of nonlinear properties. Microsystem Technologies, 2019, 25, 2289-2299.	2.0	1
63	Multi-wavelengths Terahertz emitter using graphene aperiodic super-cells. Optik, 2019, 179, 379-384.	2.9	13
64	Phononic wave hard limiter. Journal of Sound and Vibration, 2019, 443, 230-237.	3.9	7
65	Plasmonic Solar Cells, a New Way to Enhance Energy Conversion Efficiency: Analysis and Modeling of Effect of Metal Geometry. International Journal of Optics and Photonics, 2019, 13, 61-70.	0.3	1
66	UV/IR Dual-Wavelength Photodetector Design Based on ZnO/PMMA/PbSe Nanocomposites. IEEE Nanotechnology Magazine, 2018, 17, 574-581.	2.0	6
67	Characterization of core-shell nanostructure consisting Si-Au-SiO <sub>2</sub> based on manipulation of optical properties. Optical and Quantum Electronics, 2018, 50, 1.	3.3	2
68	The elastic modes coupling in phononic crystals and acoustically induced transparency. AIP Advances, 2018, 8, 115102.	1.3	2
69	WAVEGUIDE DESIGNING FOR ABSORBING MODULATOR IN GAN/ALN STRUCTURE FOR ALL OPTICAL NETWORKING. Progress in Electromagnetics Research M, 2018, 71, 51-61.	0.9	1
70	Two-dimensional analysis of a negative differential conductance gate transistor as a THz emitter. Plasma Science and Technology, 2017, 19, 045001.	1.5	1
71	All-Optical switching in metal nanoparticles plasmonic waveguide using EIT phenomenon. Optik, 2017, 132, 291-298.	2.9	9
72	Fluorescence Resonance Energy Transfer between an Anti-EGFR Antibody and Bi <sub>2</sub> Se <sub>3</sub> /SiO <sub>2</sub> , ZnS/SiO <sub>2</sub> , and ZnSe/SiO <sub>2</sub> Nanomaterials for Biosensor Purposes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1564-1571.	1.2	4

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73	High efficiency solar cells using quantum interferences. Optical and Quantum Electronics, 2017, 49, 1.	3.3	6
74	Significant performance enhancement in continuous wave terahertz photomixers based on fractal structures. International Journal of Modern Physics B, 2017, 31, 1750002.	2.0	0
75	Proposal for Simultaneous Two-Color Smith-Purcell Terahertz Radiation Through Effective Surface Plasmon Excitation. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-9.	2.9	17
76	Design of broadband visible carpet cloak based on composite media. , 2017, , .		0
77	Electrical and optical performance evaluation in solution-process-based optoelectronic devices: theoretical modeling. Applied Optics, 2017, 56, 1953.	2.1	4
78	Impacts of Nanoparticles and Nano Rod Arrays on Optical Generation Rate in Plasmonic-Based Solar Cells. International Journal of Optics and Photonics, 2017, 11, 103-112.	0.3	0
79	Two-dimensional modeling and analysis of a nanometer transistor as a THz emitter. Physics of Plasmas, 2016, 23, 102104.	1.9	5
80	Improvement of the conversion efficiency and power of thin film silicon solar cells by embedding metallic nanostructures in depletion region. Optik, 2016, 127, 8988-8994.	2.9	11
81	Broadband negative refractive index at visible range with composite materials. Optical and Quantum Electronics, 2016, 48, 1.	3.3	2
82	A Strategy to Achieve High-Efficiency Organolead Trihalide Perovskite Solar Cells. Journal of Electronic Materials, 2016, 45, 5746-5755.	2.2	6
83	Broadband Carpet Cloak Designed using Nanocomposite Metamaterials for 3- 5 $\mu\text{m}$ Wavelength Range. IEEE Nanotechnology Magazine, 2016, , 1-1.	2.0	2
84	Continuous terahertz wave generation based on photomixers coupled to Fibonacci fractal tree antennas. Optical and Quantum Electronics, 2016, 48, 1.	3.3	3
85	Design criteria for silicon nanostructures in silicon based triple junction solar cell. Optical and Quantum Electronics, 2016, 48, 1.	3.3	12
86	Modeling and analysis of a new THz source based on cylindrical FET (C-FET). Superlattices and Microstructures, 2016, 97, 176-185.	3.1	5
87	THz wave generation in cylindrical heterostructure nanowire. Optik, 2016, 127, 8294-8300.	2.9	3
88	Smith-Purcell Based Terahertz Frequency Multiplier: Three Dimensional Analysis. Springer Proceedings in Physics, 2016, , 145-155.	0.2	7
89	Midinfrared Invisibility Cloak Design Using Composite Optical Materials. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 134-139.	2.9	7
90	Band gap engineering of organo metal lead halide perovskite photovoltaic absorber. Optical and Quantum Electronics, 2016, 48, 1.	3.3	13

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91	Plasmon-enhanced performance of an ultrathin silicon solar cell using metal-semiconductor core-shell hemispherical nanoparticles and metallic back grating. <i>Applied Optics</i> , 2016, 55, 1779.	2.1	51
92	Fabrication of high sensitive and fast response MIR photodetector based on a new hybrid graphene structure. <i>Sensors and Actuators A: Physical</i> , 2016, 238, 150-157.	4.1	5
93	Sensitive Ultra Violet Photodetectors Based on B-Doped Zinc Oxide Nanomaterials. <i>Sensor Letters</i> , 2016, 14, 1239-1243.	0.4	1
94	HIGHLY NONLINEAR AND NEAR-ZERO ULTRA-FLATTENED DISPERSION DODECAGONAL PHOTONIC CRYSTAL FIBERS. <i>Progress in Electromagnetics Research C</i> , 2015, 60, 115-123.	0.9	8
95	High Throughput Quantum Dot Based LEDs. , 2015, , .		3
96	A New Proposal for Simultaneous Multicolor Detection Based on Quantum Dots and Selective Energy Contacts. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 2231-2237.	3.0	9
97	Broadband Negative Refractive Index in the Visible Spectrum. , 2015, , .		0
98	Optical Properties of Coated Nanospheres in Visible Wavelength Range. , 2015, , .		0
99	3-D Numerical Analysis of Smithâ€™Purcell-Based Terahertz Wave Radiation Excited by Effective Surface Plasmon. <i>Journal of Lightwave Technology</i> , 2015, 33, 4640-4647.	4.6	27
100	Broadband negative optical constants in composite materials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2015, 14, 77-92.	2.0	8
101	Design of a portable nanosensor for easy breast tomography. <i>RSC Advances</i> , 2015, 5, 19002-19013.	3.6	11
102	Modeling of Solar Cell Efficiency Improvement Using Pyramid Grating in Single Junction Silicon Solar Cell. <i>Springer Proceedings in Energy</i> , 2015, , 61-67.	0.3	5
103	Modification of graphene oxide for applying as mid-infrared photodetector. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 637-643.	2.2	19
104	Analysis of the light trapping effect on the performance of silicon-based solar cells: absorption enhancement. <i>Applied Optics</i> , 2015, 54, 3591.	2.1	40
105	High-Performance Solution Processed Inorganic Quantum-Dot LEDs. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 911-917.	2.0	9
106	Application of dipole mono-layers for efficiency improvement in organic solar cells. <i>Optical and Quantum Electronics</i> , 2015, 47, 3871-3882.	3.3	2
107	Nanocomposite Multilayer Structure for Broadband MIR Negative Refractive Index. <i>Journal of Lightwave Technology</i> , 2015, 33, 4171-4175.	4.6	6
108	Contribution of triplet excitons to the efficiency of fluorescent organic light emitting diodes. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 094301.	1.5	2

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109	Fabrication of fast mid-infrared range photodetector based on hybrid grapheneâ€PbSe nanorods. Applied Optics, 2015, 54, 6386.	2.1	25
110	All-fiber dual wavelength femtosecond ring laser by using FBG. Optik, 2015, 126, 3472-3474.	2.9	2
111	Investigation of efficient mathematical permittivity modeling for modal analysis of plasmonics layered structures. Optik, 2015, 126, 323-327.	2.9	5
112	A Proposal for Intermediate Band Solar Cells with Optimized Transition Energy in Cr Doped 3C-SiC. Springer Proceedings in Energy, 2015, , 69-76.	0.3	2
113	Temperature Effect on Intermediate Band Solar Cells (IBSCs). , 2015, , .		1
114	A Novel Multiband Filter Design based on Ring Resonators and DSP Approach. , 2015, , .		0
115	Spatial Mode Conversion by Non-degenerate Four Wave Mixing. , 2015, , .		0
116	Design for Reliability of Complex System: Case Study of Horizontal Drilling Equipment with Limited Failure Data. Journal of Quality and Reliability Engineering, 2014, 2014, 1-13.	1.3	25
117	Highâ€responsivity AlGaInâ€GaIn multiâ€quantum well UV photodetector. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 309-317.	1.9	5
118	Demonstration of $\pi$ phase shift in electrooptic modulators using modulation instability. IEEE Photonics Journal, 2014, 6, 1-9.	2.0	4
119	Opto-Electrical Simulation of Organic Solar Cells. , 2014, , .		7
120	Highly Sensitive LPFG-Based Bending Sensor in W-Type Optical Fiber. , 2014, , .		0
121	Analysis and optimization of a dual-core dispersion compensation fiber based on a 12-fold photonic quasicrystal structure. Applied Optics, 2014, 53, 8366.	2.1	3
122	Fabrication of New Mid Infrared Photo-Detectors Based on Graphene Modified by Organic Molecules. IEEE Sensors Journal, 2014, , 1-1.	4.7	1
123	Efficiency analysis and electronic structures of 3C-SiC and 6H-SiC with 3d elements impurities as intermediate band photovoltaics. Journal of Photonics for Energy, 2014, 4, 042098.	1.3	16
124	Performance Analysis of Ultra-Thin Silicon Based Tunnel Junctions for Tandem Solar Cell Applications. Springer Proceedings in Physics, 2014, , 125-130.	0.2	1
125	Comparative study between LPFG- and FBG-based bending sensors. Optics Communications, 2014, 312, 99-105.	2.1	29
126	Evaluation of single virus detection through optical biosensor based on microsphere resonator. Optik, 2014, 125, 3599-3602.	2.9	15



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127	Optical bistability in a single-bus InGaAs micro-ring resonator array. Optik, 2014, 125, 3573-3577.	2.9	0
128	Novel and Simple Solution-processed MIS Ultraviolet (UV) Detector Based on Core-Shell Si/SiO <sub>2</sub> Nanocrystals. Journal of Electronic Materials, 2014, 43, 1249-1254.	2.2	5
129	Transient and steady state analysis of micro ring resonator array based photodetector in optical communication wavelength (linear and nonlinear operation). Optik, 2014, 125, 3935-3942.	2.9	0
130	Modeling of Effective Host Mobility for the Simulation of Polymeric Host-Guest Light Emitting Diodes. Journal of Lightwave Technology, 2014, 32, 959-965.	4.6	3
131	High power room-temperature design of terahertz quantum cascade laser based on difference frequency generation. Optik, 2014, 125, 979-983.	2.9	1
132	A new proposal for Si tandem solar cell: Significant efficiency enhancement in 3C-SiC/Si. Optik, 2014, 125, 1292-1296.	2.9	31
133	A novel proposal for enhancement of light extraction efficiency in WOLEDs based on optimized photonic crystal structures. Optik, 2014, 125, 6977-6980.	2.9	2
134	The narrow band THz filter in metallic photonic crystal slab framework: Design and investigation. Optik, 2014, 125, 6545-6549.	2.9	6
135	An all-optical switch/photodetection at 1550 nm, based on a micro-ring resonator array. Optik, 2014, 125, 4529-4533.	2.9	1
136	Enhancement of tumor smart-targeting efficiency based on optical communication between signaling and receiving nanoparticles (modeling and analysis). RSC Advances, 2014, 4, 30984-30992.	3.6	5
137	Utilizing interband and intraband processes in QD-SOAs for controlling the light velocity. Optik, 2014, 125, 984-988.	2.9	0
138	Ultrafast GaN/AlN modulator based on quantum dot for terabit all-optical communication. Optik, 2014, 125, 3844-3851.	2.9	11
139	Nanoparticles-Based Fluorescence Resonance Energy Transfer for Detection of Biotin. Journal of Colloid Science and Biotechnology, 2014, 3, 227-231.	0.2	1
140	All-optical multi-wavelength header recognition using superimposed Bragg gratings based correlators. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 56-63.	1.9	3
141	Third order susceptibility enhancement using GaN based composite nanoparticle. Optik, 2013, 124, 6669-6675.	2.9	13
142	Simulation of Tumor Targeting Enhancement by Amplifying of Targeted Nano-Biosensors Radiation Intensity. IEEE Transactions on Biomedical Engineering, 2013, 60, 1328-1335.	4.2	14
143	Investigation of Surface Plasmon Resonance in Multilayered Onion-Like Heteronanocrystal Structures. IEEE Nanotechnology Magazine, 2013, 12, 831-838.	2.0	20
144	Plasmon Modes Hybridization Influence on Nano-Bio-Sensors Specification. IEEE Nanotechnology Magazine, 2013, 12, 858-866.	2.0	12

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145	Light extraction efficiency enhancement in organic light emitting diodes based on optimized multilayer structures. Optik, 2013, 124, 3287-3291.	2.9	9
146	Investigation of power penalty in WDM systems for dispersion managed fibers. Optik, 2013, 124, 2072-2075.	2.9	6
147	Reduction of guided waves in ITO/glass interface of white organic light emitting diodes (WOLEDs): Layer optimization. Optik, 2013, 124, 5061-5063.	2.9	5
148	In GaInAs PIn GaInAs optical transistor. Optik, 2013, 124, 385-388.	2.9	0
149	Layer optimization in wight organic light emitting diodes (WOLEDs) to reduce the portion of guided waves in ITO/Glass interface. Optik, 2013, 124, 6582-6585.	2.9	3
150	Group velocity reduction in multilayer metamaterial waveguide. Optik, 2013, 124, 1230-1233.	2.9	13
151	Sensitive, Fast, Solution-Processed Ultraviolet Detectors Based on Passivated Zinc Oxide Nanorods. ChemPhysChem, 2013, 14, 554-559.	2.1	10
152	Fabrication of fast and sensitive IR-detectors based on PbS quantum dots passivated by organic ligands. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 420-424.	1.8	9
153	Electrically Tunable Slow and Fast Light using Coherent Population Oscillations in Quantum Dot Semiconductor Optical Amplifier. Journal of Optical Communications, 2013, 34, 1-8.	4.7	13
154	Quantum-dot semiconductor optical amplifier performance management under optical injection. Journal of Modern Optics, 2013, 60, 509-514.	1.3	4
155	Self-consistent performance modeling for dual band MIS UV photodetectors based on Si/SiO <sub>2</sub> multilayer structure. Applied Optics, 2012, 51, 3508.	1.8	1
156	Nanoscale all-optical plasmonic switching using electromagnetically induced transparency. Applied Optics, 2012, 51, 5019.	1.8	9
157	Simulation and analysis of quantum dot laser based on tunneling injection. , 2012, , .		0
158	Solution-Processed Photoconductive UV Detectors Based on ZnO Nanosheets. IEEE Photonics Technology Letters, 2012, 24, 1995-1997.	2.5	13
159	Dispersion properties of silicon and silica photonic nanowires for nonlinear applications. , 2012, , .		0
160	Modeling of Metal-Insulator-Semiconductor Dualband Si/SiO <sub>2</sub> Multi-Quantum Well UV Detectors. International Journal of Optomechatronics, 2012, 6, 275-288.	6.6	1
161	Grating-based fiber bending sensors with wide bending range. , 2012, , .		1
162	Modeling and Improvement of Breast Cancer Site Temperature Profile by Implantation of Onion-Like Quantum-Dot Quantum-Well Heteronanocrystal in Tumor Site. IEEE Nanotechnology Magazine, 2012, 11, 1183-1191.	2.0	20

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163	FWM minimization in WDM optical communication systems using the asymmetrical dispersion-managed fibers. Optik, 2012, 123, 758-760.	2.9	24
164	Dynamical properties of DIT based all-optical switch. Optik, 2012, 123, 1115-1119.	2.9	1
165	Terahertz dual-wavelength quantum cascade laser based on GaN active region. Optics and Laser Technology, 2012, 44, 378-383.	4.6	24
166	EIT based tunable metal composite spherical nanoparticles. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 102-111.	2.0	7
167	Design of Hybrid Solar Cell Based on Dye-Sensitized TiO <sub>2</sub> Nanoparticles with Conjugated Polymer. Acta Physica Polonica A, 2012, 121, 10-12.	0.5	0
168	Reduce of electrical power loss in three Terminal vertical cavity surface emitting laser. , 2011, , .		0
169	Material type and dimension effects of quantum box in QD-based waveguides. , 2011, , .		0
170	Terahertz and Infrared Quantum Photodetectors. Lecture Notes in Electrical Engineering, 2011, , 91-190.	0.4	2
171	AMPLIFICATION WITHOUT INVERSION IN SEMICONDUCTOR QUANTUM DOT. Journal of Nonlinear Optical Physics and Materials, 2011, 20, 109-122.	1.8	0
172	An Overview of the Technological and Scientific Achievements of the Terahertz. Lecture Notes in Electrical Engineering, 2011, , 1-89.	0.4	1
173	Q-Factor Microcavity Design Based on 12-Fold Photonic Quasicrystals. Fiber and Integrated Optics, 2011, 30, 125-138.	2.5	4
174	All-Optical Multi-Mode Interference Switch Using Non-Linear Directional Coupler as a Passive Phase Shifter. Fiber and Integrated Optics, 2011, 30, 139-150.	2.5	26
175	Terahertz Technology. Lecture Notes in Electrical Engineering, 2011, , .	0.4	37
176	Correspondence Between Effective Mode Area and Dispersion Variations in Defected Core Photonic Crystal Fibers. Journal of Lightwave Technology, 2011, 29, 234-241.	4.6	9
177	Design of All-Optical Loadable and Erasable Memory Cell by LWI and EIT Effects. , 2011, , .		0
178	A Dual-Color IR Quantum Cascade Photodetector With Two Output Electrical Signals. IEEE Transactions on Electron Devices, 2011, 58, 165-172.	3.0	11
179	MZ-MMI-based all-optical switch using nonlinear coupled waveguides. Optik, 2011, 122, 1787-1790.	2.9	20
180	Evolution of nonclassical light propagating through passive optical coupled waveguides: Entanglement dynamic. Optik, 2011, 122, 2034-2038.	2.9	0

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181	Quantum dot semiconductor optical amplifiers: optical pumping versus electrical pumping. Journal of Optics (United Kingdom), 2011, 13, 035406.	2.2	19
182	Investigation of electronic and optical properties of (CdSe/ZnS/CdSe/ZnS) quantum dotâ€“quantum well heteronanocrystal. Journal of Nanoparticle Research, 2011, 13, 1197-1205.	1.9	33
183	An ultra compact photonic crystal wavelength division demultiplexer using resonance cavities in a modified Y-branch structure. Optik, 2011, 122, 1481-1485.	2.9	118
184	A High Q Design for N-channel Wavelength Division Demultiplexer. Journal of Optical Communications, 2011, 32, .	4.7	3
185	Novel Design Method for Single-Mode Bend-Insensitive Fiber Appropriate for Fiber-to-the-Home Application. Fiber and Integrated Optics, 2011, 30, 102-111.	2.5	1
186	Optimum Compensator Positioning to Reduce Four-Wave Mixing in Wavelength Division Multiplexing Optical Communication Systems Using Dispersion-Managed Fibers. Fiber and Integrated Optics, 2011, 30, 252-258.	2.5	2
187	Nanostructure Semiconductor Optical Amplifiers. Engineering Materials, 2011, , .	0.6	29
188	Performance Improvement in Fiber-Optic Spectrometers Using Photonic Crystal Fibers. Fiber and Integrated Optics, 2011, 30, 178-191.	2.5	1
189	Novel Low-Bend Large Effective Area Fiber for Fiber-to-the-Home Application. Fiber and Integrated Optics, 2011, 30, 1-8.	2.5	3
190	Terahertz and Infrared Quantum Cascade Lasers. Lecture Notes in Electrical Engineering, 2011, , 191-238.	0.4	1
191	Finite difference modeling of bipolar OLED. , 2010, , .		0
192	Proposal for all-optical controllable switch using dipole induced transparency (DIT). Optics Communications, 2010, 283, 1817-1825.	2.1	9
193	Tb/s Optical Logic Gates Based on Quantum-Dot Semiconductor Optical Amplifiers. IEEE Journal of Quantum Electronics, 2010, 46, 354-360.	1.9	98
194	Proposal for an ultracompact tunable wavelength-division-multiplexing optical filter based on quasi-2D photonic crystals. Journal of Optics (United Kingdom), 2010, 12, 015405.	2.2	17
195	Capping-Barrier Layer Effect on Quantum Dot Optoelectronic Characteristics. Chinese Physics Letters, 2010, 27, 104208.	3.3	1
196	Zero-dispersion wavelength and mode field diameter managements of ZDSF by optimization technique. , 2010, , .		0
197	Waveguiding properties of photonic quasicrystal heterostructures based on envelope approximation. Journal of Optics (United Kingdom), 2010, 12, 115503.	2.2	2
198	Design and temperature analysis of ZDSF based on triangular graded-index single-mode optical fiber. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
199	Phonon engineering in nanoscale layered structures. , 2010, , .		0
200	All-optical wideband spectrum analyzer in nano-scale using metal composite nanoparticle. , 2010, , .		0
201	Proposal for 1&#x00D7;4 ultracompact arrayed waveguide grating based on Si-nanowire spirals. , 2010, , .		0
202	Performance enhancement of organic solar cells using plasmonic effects. , 2010, , .		1
203	Optical Filters Using Optical Multi-Layer Structures for Optical Communication Systems. Fiber and Integrated Optics, 2010, 29, 209-224.	2.5	13
204	Proposal for all-optical controllable double state switch using dipole induced transparency (DIT). , 2010, , .		0
205	EIT-based MZ-MMI all-optical switch. Journal of Modern Optics, 2010, 57, 2021-2026.	1.3	6
206	Nonclassical light in array of single mode optical waveguides. , 2010, , .		0
207	Enlarging effective mode area of photonic crystal fibers using defected core structures. , 2010, , .		2
208	Effect of metal nano particals on absorption enhancement in organic solar cells. , 2010, , .		0
209	All-optical switching using microring resonators including Quantum-Dots. , 2010, , .		2
210	Quantum-wire conductance manipulating by asymmetric quantum dot-molecules. , 2010, , .		0
211	Resolution improvement in high-speed fiber-optic spectrometers using photonic crystal fibers. , 2010, , .		2
212	Spectrum envelope analysis of sampled gratings with different sampling segments. , 2010, , .		0
213	DISPERSION FLATTENED OPTICAL FIBER DESIGN FOR LARGE BANDWIDTH AND HIGH-SPEED OPTICAL COMMUNICATIONS USING OPTIMIZATION TECHNIQUE. Progress in Electromagnetics Research B, 2009, 13, 21-40.	1.0	20
214	Analysis of one-dimensional Fibonacci-class quasicrystals using perturbation theory. , 2009, , .		0
215	Equivalent circuit model of quantum dot semiconductor optical amplifiers: dynamic behaviour and saturation properties. Journal of Optics, 2009, 11, 105205.	1.5	18
216	A novel fibre design strategy for simultaneously introducing ultra small dispersion and dispersion slope using genetic algorithm. European Transactions on Telecommunications, 2009, 20, 37-47.	1.2	5

#	ARTICLE	IF	CITATIONS
217	Ultra-high detectivity room temperature THz-IR photodetector based on resonant tunneling spherical centered defect quantum dot (RT-SCDQD). Optics Communications, 2009, 282, 3499-3508.	2.1	21
218	Linear frequency-doubling in dual Mid-IR-wavelength quantum cascade laser active region. Superlattices and Microstructures, 2009, 45, 134-142.	3.1	8
219	Tunable all-optical photonic crystal channel drop filter for DWDM systems. Journal of Optics, 2009, 11, 065102.	1.5	14
220	Two-wavelength THz quantum cascade laser with highly enhanced temperature characteristics. Proceedings of SPIE, 2009, , .	0.8	0
221	Two-wavelength THz quantum cascade laser with highly enhanced temperature characteristics. , 2009, , .		1
222	Electron transport in array of centered defect quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 269-277.	2.7	3
223	Long wavelength infrared photodetector design based on electromagnetically induced transparency. Optics Communications, 2008, 281, 3739-3747.	2.1	17
224	A proposal for enhancement of optical nonlinearity in GaN/AlGaIn centered defect quantum box (CDQB) nanocrystal. Solid-State Electronics, 2008, 52, 1075-1081.	1.4	18
225	Highly enhanced second-order nonlinear susceptibilities in tailored GaN/AlGaIn/AlN quantum well structures. Physica B: Condensed Matter, 2008, 403, 2725-2731.	2.7	10
226	Defect-induced enhancement of absorption coefficient and electroabsorption properties in GaN/AlGaIn centered defect quantum box (CDQB) nanocrystal. Physica B: Condensed Matter, 2008, 403, 2789-2796.	2.7	16
227	A novel dispersion-shifted single mode optical fiber design with ultra-high-bit-rate and very low loss for long-haul communications. Optics Communications, 2008, 281, 5779-5787.	2.1	6
228	Proposal for ultra-high performance infrared Quantum Dot. Optics Express, 2008, 16, 2752.	3.4	19
229	Hybridization of Neural Networks and Genetic Algorithms for Identification of Complex Bragg Gratings. Journal of Electromagnetic Waves and Applications, 2008, 22, 643-664.	1.6	7
230	A Novel Proposal for Passive All-Optical Demultiplexer for DWDM Systems Using 2-D Photonic Crystals. Journal of Electromagnetic Waves and Applications, 2008, 22, 471-482.	1.6	17
231	Exactly Modal Analysis of Inhomogeneous Slab Waveguide using Nikiforov-Uvarov Method. Journal of Electromagnetic Waves and Applications, 2008, 22, 681-692.	1.6	8
232	Nanotechnology and high-precision optical displacement sensor design for optomechatronical systems. Proceedings of SPIE, 2008, , .	0.8	0
233	All-optical tunable mirror of VCSEL using electromagnetically induced transparency. , 2008, , .		4
234	All-Optical, Compact, High-Precision, and Integrated Proposal for Design of Optical Spectrum Analyzer Using Ring Resonator for DWDM Systems. Journal of Electromagnetic Waves and Applications, 2008, 22, 431-443.	1.6	0

#	ARTICLE	IF	CITATIONS
235	All-optical integrated multiplexer/demultiplexer and add-drop multiplexer using array of ring resonators for passive optical network. Proceedings of SPIE, 2008, , .	0.8	0
236	ASYMPTOTIC ITERATION METHOD: A POWERFUL APPROACH FOR ANALYSIS OF INHOMOGENEOUS DIELECTRIC SLAB WAVEGUIDES. Progress in Electromagnetics Research B, 2008, 4, 171-182.	1.0	27
237	ALL-OPTICAL TUNABLE MIRROR DESIGN USING ELECTROMAGNETICALLY INDUCED TRANSPARENCY. Progress in Electromagnetics Research M, 2008, 5, 25-41.	0.9	12
238	KINEMATICS AND KINETICS ANALYSIS OF RECTILINEAR LOCOMOTION GAIT. , 2008, , .		0
239	All-optical filter design: Electromagnetically induced transparency and ring resonator. , 2007, , .		6
240	An ultra high-precision temperature sensor design based on two-port ring resonator. Proceedings of SPIE, 2007, , .	0.8	1
241	A proposal for integrated optical isolator using apodized Kerr-like nonlinear Bragg Grating. , 2007, , .		0
242	An ultra-high level second-order nonlinear optical susceptibilities in strained asymmetric GaN-AlGaIn quantum well applicable for integrated optical component design. , 2007, , .		0
243	A new integrated optical high-resolution spectrum analyzer structure based on ring resonator applicable to DWDM networks. , 2007, , .		0
244	All-optical tunable dispersion compensator using ring resonator and electromagnetically induced transparency. , 2007, , .		0
245	Proposal for optical fiber designs with ultrahigh effective area and small bending loss applicable to long haul communications. Applied Optics, 2007, 46, 6330.	2.1	14
246	A Novel Multi-clad Single Mode Optical Fiber for Broadband Optical Networks. , 2007, , .		0
247	A PRINCIPAL INVESTIGATION OF THE GROUP VELOCITY DISPERSION (GVD) PROFILE FOR OPTIMUM DISPERSION COMPENSATION IN OPTICAL FIBERS: A THEORETICAL STUDY. Progress in Electromagnetics Research, 2007, 75, 209-224.	4.4	15
248	A NOVEL PROPOSAL FOR ULTRA-HIGH RESOLUTION AND COMPACT OPTICAL DISPLACEMENT SENSOR BASED ON ELECTROMAGNETICALLY INDUCED TRANSPARENCY IN RING RESONATOR. Progress in Electromagnetics Research, 2007, 77, 149-170.	4.4	13
249	Study of bending loss and mode field diameter in depressed inner core triple-clad single-mode optical fibers. Optics Communications, 2007, 280, 58-67.	2.1	10
250	Piecewise linear integrated optical device as an optical isolator using two-port nonlinear ring resonators. Optics and Laser Technology, 2007, 39, 1059-1065.	4.6	28
251	A novel proposal for ultra-high optical nonlinearity in GaN/AlGaIn spherical centered defect quantum dot (SCDQD). Microelectronics Journal, 2007, 38, 342-351.	2.0	30
252	An ultra-high level second-order nonlinear optical susceptibility in strained asymmetric GaN-AlGaIn quantum wells: Towards all-optical devices and systems. Microelectronics Journal, 2007, 38, 900-904.	2.0	11



#	ARTICLE	IF	CITATIONS
253	Investigation of dispersion characteristic in MI- and MII-type single mode optical fibers. Optics Communications, 2007, 271, 413-420.	2.1	13
254	A proposal for high-precision fiber optic displacement sensor. , 2006, , .		0
255	Tunable optical delay line using two port ring resonator. , 2006, , .		1
256	Tunable dispersion management using thermo-optical effect in ring resonator. , 2006, , .		0
257	A micro-optical electromechanical system (MOEMS) for high-precision displacement sensor design using ring resonator array. , 2006, , .		1
258	Low threshold and tunable all-optical switch using two-photon absorption in array of nonlinear ring resonators coupled to MZI. Microelectronics Journal, 2006, 37, 976-981.	2.0	25
259	Generalized Fibonacci quasi photonic crystals and generation of superimposed Bragg Gratings for optical communication. Microelectronics Journal, 2006, 37, 897-903.	2.0	11
260	Identification of complex Bragg gratings (Apodized and chirped) using artificial neural networks (ANN) (inverse problem and ANN). , 2006, , .		0
261	Exactly solvable inhomogeneous Fibonacci-class quasi-periodic structures (optical filtering). Optics Communications, 2005, 247, 247-256.	2.1	13
262	Optical transmission properties of light propagation through Fibonacci-class ring-resonators. European Physical Journal B, 2005, 47, 137-143.	1.5	4
263	Optical switching characteristics of nonlinear periodic multilayer structure. Laser Physics Letters, 2005, 2, 94-100.	1.4	2
264	All-optical implementation of tunable low-pass, high-pass, and bandpass optical filters using ring resonators. Journal of Lightwave Technology, 2005, 23, 446-460.	4.6	10
265	Optical filtering properties of inhomogeneous isotropic slab waveguides. Laser Physics Letters, 2004, 1, 340-346.	1.4	2
266	All-optical integrated coding system for optical analog to digital (A/D) converter. Laser Physics Letters, 2004, 1, 406-410.	1.4	8
267	Full-optical realization of tunable low pass, high pass and band pass optical filters using ring resonators. Optics Communications, 2004, 240, 133-151.	2.1	17
268	PT-invariant Helmholtz optics and its applications to slab waveguides. European Physical Journal B, 2003, 36, 359-363.	1.5	11
269	Full optical analog to digital (A/D) converter based on Kerr-like nonlinear ring resonator. Optics Communications, 2003, 228, 39-48.	2.1	40
270	Ion-acoustic solitons in a plasma with a relativistic electron beam. Physics of Plasmas, 2001, 8, 4753-4761.	1.9	42



#	ARTICLE	IF	CITATIONS
271	Nonlinear quarter wave multi-layer stack as an optical limiter. , 0, , .		0
272	Integrated optical limiter using Kerr-like nonlinear Bragg grating. , 0, , .		0
273	Goos-Hanchen shift description in planar optical waveguides. , 0, , .		0
274	Exact solutions for TM-mode in inhomogeneous slab waveguides. , 0, , .		0
275	Multi-band optical filter design using fibonacci based quasi- periodic homogeneous structures. , 0, , .		5
276	Superimposed Bragg Gratings using Fibonacci Quasi-periodic Crystals. , 0, , .		0
277	Optical Pulse distortion in Fibonacci-class Quasi Photonic Crystals. , 0, , .		0
278	Fibonacci Quasi Crystals as Special Optical Waveguides and Filters. , 0, , .		0
279	The Index of Refraction Modulation effect on Optical Switching Performance in Kerr-like Nonlinear Periodic Multilayer Stacks. , 0, , .		0
280	Piecewise Linear Integrated Optical Device as an Optical Isolator using Two-port Nonlinear Ring Resonators. , 0, , .		0
281	All-optical Semiconductor Optical Amplifiers Using Quantum Dots (Optical Pumping). , 0, , .		2
282	Design Considerations Influencing Optical Response in Gold Spherical Nanoparticles. Journal of Nano Research, 0, 46, 1-11.	0.8	5
283	Surface-Modified Graphene for Mid-Infrared Detection. , 0, , .		2
284	Highly ultra-broadband QD-SOA exploiting superimposition of quantum dots. Journal of Modern Optics, 0, , 1-11.	1.3	2