

Seyedeh Mehri Hamidi

List of Publications by Year in descending order

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133
papers

1,070
citations

623734

14
h-index

752698

20
g-index

136
all docs

136
docs citations

136
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional biocompatible plasmonic contact lenses for color blindness correction. Scientific Reports, 2022, 12, 2037.	3.3	12
2	Nonlinear refractive index of the gold nanoparticle/silicon quantum dot hybrid structure. Physica Scripta, 2022, 97, 030001.	2.5	2
3	Ultra-high-sensitive biosensor based on SrTiO ₃ and two-dimensional materials: ellipsometric concepts. Optical Materials Express, 2022, 12, 2609.	3.0	12
4	Multifunctional logic gates based on resonant transmission at atomic-plasmonic structure. Scientific Reports, 2022, 12, .	3.3	3
5	Enhanced photocatalytic activity of two dimensional SrTiO ₃ nano structures for dye degradation. Optical and Quantum Electronics, 2022, 54, .	3.3	1
6	Surface lattice resonance-based magneto-plasmonic switch in NiFe patterned nano-structure. Journal of Magnetism and Magnetic Materials, 2021, 517, 167387.	2.3	3
7	The effect of dye concentration and cell thickness on dye-polymer random laser action. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
8	Red and Blue color production by flexible all-dielectric structure. Optik, 2021, 230, 166345.	2.9	3
9	Light emitting polymers in two dimensional plasmonic multi wavelength random laser. Optik, 2021, 231, 166437.	2.9	4
10	Transition from incoherent to coherent random lasing by adjusting silver nanowires. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	6
11	Electro-optical switch based on one-dimensional graphene-plasmonic crystals. Optical Materials, 2021, 115, 111051.	3.6	9
12	One dimensional efficient photocatalyst based on plasmonic grating. Optical and Quantum Electronics, 2021, 53, 1.	3.3	2
13	Role of plasmonics in detection of deadliest viruses: a review. European Physical Journal Plus, 2021, 136, 675.	2.6	7
14	Random laser action in the visible region by dye-based silver nano-hexagonal colloid media. Physica Scripta, 2021, 96, 115505.	2.5	2
15	Thermoplasmonic effect onto Toad physiology signals by plasmonic microchip structure. Scientific Reports, 2021, 11, 17287.	3.3	1
16	Effect of Methadone and Tramadol Opioids on Stem Cells Based on Integrated Plasmonic-Ellipsometry Technique. Journal of Lasers in Medical Sciences, 2021, 12, e46-e46.	1.2	3
17	Detection of scorpion venom by optical circular dichroism method. Scientific Reports, 2021, 11, 15854.	3.3	4
18	Optical neural stimulation using the thermoplasmonic effect of gold nano-hexagon. Biomedical Optics Express, 2021, 12, 6013.	2.9	5

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19	Plasmonic wideband and tunable absorber based on semi etalon nano structure in the visible region. <i>Physica Scripta</i> , 2021, 96, 035805.	2.5	11
20	Trace of evanescent wave polarization by atomic vapor spectroscopy. <i>Scientific Reports</i> , 2021, 11, 21668.	3.3	5
21	Plasmonic structures for phase-sensitive ellipsometry biosensing: a review. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	7
22	Low threshold and coherence random laser based on ZnO nanorods. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	2
23	Design and Simulation of Graphene/2D Interlayer Surface Plasmon Resonance Biosensor Based on Ellipsometry Method. <i>International Journal of Optics and Photonics</i> , 2021, 15, 27-34.	0.3	7
24	Flat and Flexible 2D Plasmonic Crystal for Color Production. <i>International Journal of Optics and Photonics</i> , 2021, 15, 93-100.	0.3	1
25	Signature of plasmonic nanoparticles in multi-wavelength low power random lasing. <i>Optics and Laser Technology</i> , 2020, 121, 105770.	4.6	18
26	Bi:YIG@Au magneto-plasmonic core-shell nano-grating with robust, high magneto-optical figure of merit. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165709.	2.3	6
27	Voltage controlled properties of piezo-magneto-plasmonic core/shell nanoparticles. <i>Nano Structures Nano Objects</i> , 2020, 21, 100415.	3.5	10
28	Vertically emitted dual wavelength random laser based on light emitting polymers and silver nanowires double cavity structure. <i>Optik</i> , 2020, 219, 165256.	2.9	4
29	Two-dimensional graphene-plasmonic crystals for all-optical switch applications. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	5
30	Ellipsometric spectroscopy of rubidium vapor cell at near-normal incidence. <i>Scientific Reports</i> , 2020, 10, 17080.	3.3	3
31	Phase-Sensitive Pulse Sensor Using 2-D Active Plasmonics on Conformal Substrates. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 4379-4384.	3.0	2
32	Tunable and reversible thermo-plasmonic hot spot imaging for temperature confinement. <i>Journal of Theoretical and Applied Physics</i> , 2020, 14, 367-376.	1.4	4
33	Random laser action under picosecond laser pumping. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	5
34	Strong Excitonâ€“Plasmon Coupling in Waveguideâ€“Based Plexcitonic Nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000266.	1.5	3
35	Manipulating plasmon-exciton interactions in the plasmonic waveguide structure based on the dispersion relations concept. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	2
36	Reversible and tunable photochemical switch based on plasmonic structure. <i>Scientific Reports</i> , 2020, 10, 5110.	3.3	16

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37	Tunable low power piezo-plasmonic random laser under external voltage. <i>Optik</i> , 2020, 207, 164482.	2.9	10
38	Utilizing ZnO Nanorods for CO gas detection by SPR technique. <i>Optics Communications</i> , 2020, 463, 125490.	2.1	14
39	Tunable thermo-piezo-plasmonic effect on core/shell nanoparticles under laser irradiation and external electric field. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	2
40	Phase-sensitive optical neural recording of cerebellum tissue on a flexible interface. <i>Journal of Applied Physics</i> , 2020, 127, 113101.	2.5	13
41	Plasmophore Enhancement in Fibroblast Green Fluorescent Protein-Positive Cells Excited by Smoke. <i>ACS Omega</i> , 2020, 5, 12278-12289.	3.5	3
42	Flexible neuro-plasmonic sensor based on patterned two dimensional structure to detect methadone. , 2020, , .		1
43	Membrane activity detection in cultured cells using phase-sensitive plasmonics. <i>Optics Express</i> , 2020, 28, 36643.	3.4	7
44	Biosensing applications of all-dielectric SiO ₂ -PDMS meta-stadium grating nanocombs. <i>Optical Materials Express</i> , 2020, 10, 1018.	3.0	23
45	Detection of Nicotine Effect on Colon Cells in a Plasmonic Platform. <i>Journal of Lasers in Medical Sciences</i> , 2020, 11, 8-13.	1.2	6
46	Double-stadium Si-MZI racetrack microring resonator circuits: way to generate optical digital patterns. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1434.	2.1	5
47	Blue-shift ultrasensitivity using rhombus-shaped plasmonic crystal on Si ₃ N ₄ membrane. <i>Optical Materials Express</i> , 2020, 10, 1649.	3.0	1
48	Plasmonic Imaging in Thin Layer of PVP Contains silver nanowires. <i>International Journal of Optics and Photonics</i> , 2020, 14, 109-116.	0.3	0
49	Blue-shift ultrasensitivity using rhombus-shaped plasmonic crystal on Si ₃ N ₄ membrane. <i>Optical Materials Express</i> , 2020, 10, 1649.	3.0	0
50	Bio-compatible and highly sensitive two-dimensional plasmonic sensor. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	0
51	Electrically driven flexible 2D plasmonic structure based on a nematic liquid crystal. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 415106.	2.8	14
52	Role of higher order plasmonic modes in one-dimensional nanogratings. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	2
53	One dimensional photonic crystal as an efficient tool for in-vivo optical sensing of neural activity. <i>Optical Materials</i> , 2019, 96, 109275.	3.6	13
54	A design procedure for fan-out improvement in all-optical photonic crystal logic design. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	4

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55	Combined Application of Imaging Methods for Estimating Soil Physicochemical Properties. Eurasian Soil Science, 2019, 52, 926-934.	1.6	4
56	Two-dimensional plasmonic biosensing platform: Cellular activity detection under laser stimulation. Journal of Applied Physics, 2019, 126, 104701.	2.5	20
57	Control of nonlinear refractive index of AuNPs doped with nematic liquid crystal under external electric field. Optik, 2019, 198, 163299.	2.9	14
58	Structural stability and electron density analysis of doped germanene: a first-principles study. Materials Research Express, 2019, 6, 1050c2.	1.6	12
59	Experimental study and micro-magnetic modeling of magnetization dynamics in L10-FePt thin film. Journal of Magnetism and Magnetic Materials, 2019, 479, 12-18.	2.3	2
60	Tunable Piezophotonic Effect on Core-Shell Nanoparticles Prepared by Laser Ablation in Liquids under External Voltage. Journal of Nanotechnology, 2019, 2019, 1-11.	3.4	14
61	Rectangular plasmonic interferometer for high sensitive glycerol sensor. Scientific Reports, 2019, 9, 1378.	3.3	14
62	Footprint of plexcitonic states in low-power green-blue plasmonic random laser. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	11
63	Tamm plasmon boosting Faraday rotation in a coupled resonator magneto-plasmonic structure. Journal of Magnetism and Magnetic Materials, 2019, 469, 364-372.	2.3	3
64	Relaxation time dependencies of optically detected magnetic resonance harmonics in highly sensitive Mx magnetometers. Journal of Magnetism and Magnetic Materials, 2019, 469, 522-530.	2.3	6
65	Unexpected large transverse magneto-optic Kerr effect at quasi-normal incidence in magnetoplasmonic crystals. Journal of Magnetism and Magnetic Materials, 2019, 476, 54-58.	2.3	8
66	The electronic and optical properties of armchair germanene nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 107, 150-153.	2.7	15
67	Detecting the thermoplasmonic effect using ellipsometry parameters for self-assembled gold nanoparticles within a polydimethylsiloxane matrix. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	9
68	Adjustable Plasmonic Bandgap in One-Dimensional Nanograting Based on Localized and Propagating Surface Plasmons. International Journal of Optics and Photonics, 2019, 13, 97-102.	0.3	0
69	New generation of $\hat{\Gamma}$ -MnO ₂ nanowires @PDMS composite as a hydrogen gas sensor. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	8
70	Demonstration of tunable complex refractive index of graphene covered one dimensional photonic crystals. Optical and Quantum Electronics, 2018, 50, 1.	3.3	2
71	Transverse Tunable Magneto-Plasmonic Kerr Effect in Large Area Micro-Patterned Au/Co/Au Structures. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1465-1473.	1.8	2
72	Large area multi-channel plasmonic absorber based on the touching triangular dimers fabricated by angle controlled colloidal nanolithography. Optics and Laser Technology, 2018, 99, 203-213.	4.6	4

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73	Localized to Propagating Surface Plasmon Resonance Transition in Ni-Au Magneto-Plasmonic Gratings. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1167-1171.	1.8	0
74	Characterization of Au/Fe/Au and Au/Co/Au Magneto-Plasmonic Multilayers as an Ethanol Vapor Sensor. IEEE Transactions on Magnetics, 2018, 54, 1-7.	2.1	9
75	Enhanced Faraday rotation in one dimensional magneto-plasmonic structure due to Fano resonance. Journal of Magnetism and Magnetic Materials, 2018, 451, 305-310.	2.3	10
76	Fantastic exciton-plasmon coupling in dye-doped poly (vinyl pyrrolidone) /gold one-dimensional nano-grating. Superlattices and Microstructures, 2018, 123, 358-373.	3.1	3
77	Exciton-plasmon coupling in two-dimensional plexitonic nano grating. Optical Materials, 2018, 81, 45-54.	3.6	21
78	Highly sensitive biochemical sensor based on nanostructured plasmonic interferometer. Optics Communications, 2018, 427, 85-89.	2.1	11
79	Fabrication methods of plasmonic and magnetoplasmonic crystals: a review. European Physical Journal Plus, 2017, 132, 1.	2.6	17
80	Improvement of the spin polarization lifetime in the ^{85}Rb vapor cell by octadecyltrichlorosilane coating. Chinese Journal of Physics, 2017, 55, 301-309.	3.9	8
81	New generation of one-dimensional photonic crystal cavities as robust high-efficient frequency converter. Photonics and Nanostructures - Fundamentals and Applications, 2017, 25, 25-30.	2.0	2
82	Effects of square-wave magnetic fields on synchronization of nonlinear spin precession for sensitivity improvement of M X magnetometers. Journal of Magnetism and Magnetic Materials, 2017, 441, 718-723.	2.3	10
83	Optical detection of brain activity using plasmonic ellipsometry technique. Sensors and Actuators B: Chemical, 2017, 251, 153-163.	7.8	30
84	All optical fan out able half adder circuit based on nonlinear directional coupler. Optik, 2017, 141, 114-123.	2.9	10
85	Plasmon- exciton induced circular dichroism in Gold/PMMA (RB) complex. Journal of Materials Science: Materials in Electronics, 2017, 28, 13176-13184.	2.2	0
86	All-optical photonic crystal logic gates using nonlinear directional coupler. Photonics and Nanostructures - Fundamentals and Applications, 2017, 27, 55-63.	2.0	43
87	Engineered magneto-optical response of cobalt ferrite thin films deposited on self-assembled colloidal crystal. Thin Solid Films, 2017, 638, 81-88.	1.8	1
88	Harmonic detection of magnetic resonance for sensitivity improvement of optical atomic magnetometers. Journal of Magnetism and Magnetic Materials, 2017, 424, 284-290.	2.3	15
89	Thermoelastic-tunable magnetic response of BiFeO_3 thin film on colloidal photonic crystal substrate fabricated by pulsed laser deposition. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600505.	1.8	2
90	Neuroplasmonics: From Kretschmann configuration to plasmonic crystals. European Physical Journal Plus, 2016, 131, 1.	2.6	20

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91	Enhanced magneto-plasmonic effect in Au/Co/Au multilayers caused by excitonâ€“plasmon strong coupling. Journal of Magnetism and Magnetic Materials, 2016, 414, 122-125.	2.3	6
92	Magneto-plasmonic study of aligned Ni, Co and Ni/Co multilayer in polydimethylsiloxane as magnetic field sensor. Journal of Magnetism and Magnetic Materials, 2016, 417, 413-419.	2.3	11
93	Enhanced Magneto-Plasmonic Activity of Cobalt Layer Perforated by Au Nanostructures. Journal of Superconductivity and Novel Magnetism, 2016, 29, 771-774.	1.8	3
94	Hydrogen gas sensor based on long-range surface plasmons in lossy palladium film placed on photonic crystal stack. Optical Materials, 2016, 53, 201-208.	3.6	22
95	Kolarkoski sequence as an element to radiate giant forward and backward second harmonic signals. Journal of Applied Physics, 2015, 118, .	2.5	6
96	Optical RNS adder and multiplier. International Journal of Computer Applications in Technology, 2015, 52, 71.	0.5	7
97	Room temperature photoinduced magnetism in [py.H]3[FeCl4]2Cl. Materials Chemistry and Physics, 2015, 168, 35-41.	4.0	5
98	One-step construction and examination of one-dimensional plasmonic chromium nano-grating. Optics Communications, 2015, 345, 47-51.	2.1	3
99	Use of nanostructures based on silver nanospire prepared by oblique angle deposition as broadband optical polarizer. Optical Engineering, 2015, 54, 107104.	1.0	6
100	Fabrication and Characterization of a Microwave Filter Based on a Nanowire-Supported Magnetic Photonic Band Gap Material. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3565-3569.	1.8	2
101	Surface Plasmon Resonance Magneto-Optical Kerr Effect in Au/Co/Au Magneto-Plasmonic Multilayer. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1565-1569.	1.8	7
102	Giant enhancement of second harmonic generation in one-dimensional defective nonlinear photonic crystals. Applied Physics A: Materials Science and Processing, 2015, 118, 1447-1451.	2.3	10
103	Enhanced optically induced magnetization due to inverse Faraday effect in plasmonic nanostructures. Optics Communications, 2015, 338, 240-245.	2.1	18
104	Optical and magneto-optical properties of aligned Ni nanowires embedded in polydimethylsiloxane. Journal of Magnetism and Magnetic Materials, 2015, 374, 139-143.	2.3	15
105	Design of 1 Å— 3 power splitter based on photonic crystal ring resonator. Optical Engineering, 2014, 53, 115104.	1.0	7
106	Magnetoelectric Effect in Ba0.5Sr0.5TiO3/CoFe2O4 Thin Film Prepared by Pulsed Laser Deposition Method. Journal of Superconductivity and Novel Magnetism, 2014, 27, 565-567.	1.8	5
107	Magneto-Plasmonic Effect in Cobalt Thin Film Incorporating Coreâ€“Shell Ag@Au Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1469-1472.	1.8	8
108	Enhanced Polar Magneto-optical Kerr Rotation in Cobalt Thin Film Incorporating Ag Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2014, 27, 867-870.	1.8	3

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109	Photo-magnetic assisted ferroelectric polarization in magneto-electric BiFeO ₃ /BaTiO ₃ thin film. Journal of Magnetism and Magnetic Materials, 2014, 355, 188-191.	2.3	12
110	All optical OR/AND/XOR gates based on nonlinear directional coupler. Journal of Optics (India), 2014, 43, 146-153.	1.7	2
111	Three-input majority function with nonlinear material in all-optical domain. Journal of Optics (India), 2013, 42, 349-354.	1.7	5
112	Determination of the atomic number density of Rb vapor by using spectral Faraday rotation measurements. Journal of the Korean Physical Society, 2013, 62, 731-733.	0.7	7
113	Contribution of Au nanoparticles to the longitudinal magneto-optical Kerr effect of Bragg reflector based magneto-plasmonic multilayers. Optics and Laser Technology, 2013, 49, 237-242.	4.6	12
114	Efficient second harmonic conversion efficiency through one-dimensional coupled resonator poled nonlinear optical waveguide. Applied Physics A: Materials Science and Processing, 2013, 111, 525-529.	2.3	7
115	Longitudinal Magneto-Optical Kerr Effect in Magneto-Plasmonic Heterostructures. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1585-1587.	1.8	5
116	All-Optical Parity Circuits Using Nonlinear Directional Coupler. International Journal of Modern Education and Computer Science, 2013, 5, 68-76.	2.7	3
117	Growth-induced magnetic anisotropy behavior in thin garnet films fabricated by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2012, 109, 169-172.	2.3	2
118	Magneto-Optical Faraday Rotation in Ce:YIG Thin Films Incorporating Gold Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2713-2717.	1.8	12
119	Preparation and investigation of Ce:YIG thin films with a high magneto-optical figure of merit. Journal Physics D: Applied Physics, 2012, 45, 235001.	2.8	14
120	Cavity Enhanced Longitudinal Magneto-Optical Kerr Effect in Magneto-Plasmonic Multilayers Consisting of Ce: YIG Thin Films Incorporating Gold Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2097-2100.	1.8	11
121	Tunable optical properties in engineered one-dimensional coupled resonator optical waveguides. Optics and Laser Technology, 2012, 44, 1556-1563.	4.6	6
122	Effect of magnetic annealing on magneto-optical properties of Ce:YIG thin films incorporating gold nanoparticles. Journal Physics D: Applied Physics, 2011, 44, 305003.	2.8	22
123	Engineered one-dimensional magneto-phonic crystals for wavelength division multiplexing systems. Journal Physics D: Applied Physics, 2011, 44, 205107.	2.8	14
124	The inspection of magnetic flux leakage from metal surface cracks by magneto-optical sensors. Sensors and Actuators A: Physical, 2011, 172, 365-368.	4.1	27
125	The effect of target rotation rate on structural and morphological properties of thin garnet films fabricated by pulsed laser deposition. Optics and Laser Technology, 2011, 43, 609-612.	4.6	10
126	Adjustable Faraday rotation by using engineered one-dimensional magneto photonic crystals. Optical Materials, 2010, 32, 1085-1089.	3.6	12

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127	High Transmission Enhanced Faraday Rotation in Coupled Resonator Magneto-Optical Waveguides. Journal of Lightwave Technology, 2010, 28, 2139-2145.	4.6	16
128	A flexible design for one-dimensional photonic crystals with controllable photonic bandgap width. Optical Materials, 2008, 30, 1822-1827.	3.6	12
129	Adjustable dispersion compensating in one dimensional coupled resonator planar optical waveguides. Optics Communications, 2008, 281, 4917-4925.	2.1	13
130	Magneto-optical Kerr effect in glass/Cu/CoFeSiB/SnO ₂ thin films. Journal of Non-Crystalline Solids, 2008, 354, 5266-5268.	3.1	8
131	Magnetic behaviors of amorphous Fe ₇₈ Si ₉ B ₁₃ thin films prepared by pulsed laser deposition. Journal of Non-Crystalline Solids, 2008, 354, 5178-5180.	3.1	7
132	The influence of laser annealing in the presence of longitudinal weak magnetic field on asymmetrical magnetoimpedance response of CoFeSiB amorphous ribbons. Journal of Non-Crystalline Solids, 2008, 354, 5150-5152.	3.1	8
133	Two-dimensional plasmonic multilayer as an efficient tool for low power random lasing applications. Waves in Random and Complex Media, 0, , 1-10.	2.7	3