

Seyedeh Mehri Hamidi

List of Publications by Year in descending order

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133
papers

1,070
citations

623188

14
h-index

752256

20
g-index

136
all docs

136
docs citations

136
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	All-optical photonic crystal logic gates using nonlinear directional coupler. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 27, 55-63.	1.0	43
2	Optical detection of brain activity using plasmonic ellipsometry technique. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 153-163.	4.0	30
3	The inspection of magnetic flux leakage from metal surface cracks by magneto-optical sensors. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 365-368.	2.0	27
4	Biosensing applications of all-dielectric SiO ₂ -PDMS meta-stadium grating nanocombs. <i>Optical Materials Express</i> , 2020, 10, 1018.	1.6	23
5	Effect of magnetic annealing on magneto-optical properties of Ce:YIG thin films incorporating gold nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 305003.	1.3	22
6	Hydrogen gas sensor based on long-range surface plasmons in lossy palladium film placed on photonic crystal stack. <i>Optical Materials</i> , 2016, 53, 201-208.	1.7	22
7	Exciton-plasmon coupling in two-dimensional plexitonic nano grating. <i>Optical Materials</i> , 2018, 81, 45-54.	1.7	21
8	Neurolasmonics: From Kretschmann configuration to plasmonic crystals. <i>European Physical Journal Plus</i> , 2016, 131, 1.	1.2	20
9	Two-dimensional plasmonic biosensing platform: Cellular activity detection under laser stimulation. <i>Journal of Applied Physics</i> , 2019, 126, 104701.	1.1	20
10	Enhanced optically induced magnetization due to inverse Faraday effect in plasmonic nanostructures. <i>Optics Communications</i> , 2015, 338, 240-245.	1.0	18
11	Signature of plasmonic nanoparticles in multi-wavelength low power random lasing. <i>Optics and Laser Technology</i> , 2020, 121, 105770.	2.2	18
12	Fabrication methods of plasmonic and magnetoplasmonic crystals: a review. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	17
13	High Transmission Enhanced Faraday Rotation in Coupled Resonator Magneto-Optical Waveguides. <i>Journal of Lightwave Technology</i> , 2010, 28, 2139-2145.	2.7	16
14	Reversible and tunable photochemical switch based on plasmonic structure. <i>Scientific Reports</i> , 2020, 10, 5110.	1.6	16
15	Optical and magneto-optical properties of aligned Ni nanowires embedded in polydimethylsiloxane. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 139-143.	1.0	15
16	Harmonic detection of magnetic resonance for sensitivity improvement of optical atomic magnetometers. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 284-290.	1.0	15
17	The electronic and optical properties of armchair germanene nanoribbons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 107, 150-153.	1.3	15
18	Engineered one-dimensional magneto-photonic crystals for wavelength division multiplexing systems. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 205107.	1.3	14

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19	Preparation and investigation of Ce:YIG thin films with a high magneto-optical figure of merit. Journal Physics D: Applied Physics, 2012, 45, 235001.	1.3	14
20	Electrically driven flexible 2D plasmonic structure based on a nematic liquid crystal. Journal Physics D: Applied Physics, 2019, 52, 415106.	1.3	14
21	Control of nonlinear refractive index of AuNPs doped with nematic liquid crystal under external electric field. Optik, 2019, 198, 163299.	1.4	14
22	Tunable Piezophotonic Effect on Core-Shell Nanoparticles Prepared by Laser Ablation in Liquids under External Voltage. Journal of Nanotechnology, 2019, 2019, 1-11.	1.5	14
23	Rectangular plasmonic interferometer for high sensitive glycerol sensor. Scientific Reports, 2019, 9, 1378.	1.6	14
24	Utilizing ZnO Nanorods for CO gas detection by SPR technique. Optics Communications, 2020, 463, 125490.	1.0	14
25	Adjustable dispersion compensating in one dimensional coupled resonator planar optical waveguides. Optics Communications, 2008, 281, 4917-4925.	1.0	13
26	One dimensional photonic crystal as an efficient tool for in-vivo optical sensing of neural activity. Optical Materials, 2019, 96, 109275.	1.7	13
27	Phase-sensitive optical neural recording of cerebellum tissue on a flexible interface. Journal of Applied Physics, 2020, 127, 113101.	1.1	13
28	A flexible design for one-dimensional photonic crystals with controllable photonic bandgap width. Optical Materials, 2008, 30, 1822-1827.	1.7	12
29	Adjustable Faraday rotation by using engineered one-dimensional magneto photonic crystals. Optical Materials, 2010, 32, 1085-1089.	1.7	12
30	Magneto-Optical Faraday Rotation in Ce:YIG Thin Films Incorporating Gold Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2713-2717.	0.8	12
31	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.	2.2	12
32	Photo-magnetic assisted ferroelectric polarization in magneto-electric BiFeO ₃ /BaTiO ₃ thin film. Journal of Magnetism and Magnetic Materials, 2014, 355, 188-191.	1.0	12
33	Structural stability and electron density analysis of doped germanene: a first-principles study. Materials Research Express, 2019, 6, 1050c2.	0.8	12
34	Two-dimensional biocompatible plasmonic contact lenses for color blindness correction. Scientific Reports, 2022, 12, 2037.	1.6	12
35	Ultra-high-sensitive biosensor based on SrTiO ₃ and two-dimensional materials: ellipsometric concepts. Optical Materials Express, 2022, 12, 2609.	1.6	12
36	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.	0.8	11

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37	Magneto-plasmonic study of aligned Ni, Co and Ni/Co multilayer in polydimethylsiloxane as magnetic field sensor. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 417, 413-419.	1.0	11
38	Highly sensitive biochemical sensor based on nanostructured plasmonic interferometer. <i>Optics Communications</i> , 2018, 427, 85-89.	1.0	11
39	Footprint of plexcitonic states in low-power green-blue plasmonic random laser. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	11
40	Plasmonic wideband and tunable absorber based on semi etalon nano structure in the visible region. <i>Physica Scripta</i> , 2021, 96, 035805.	1.2	11
41	The effect of target rotation rate on structural and morphological properties of thin garnet films fabricated by pulsed laser deposition. <i>Optics and Laser Technology</i> , 2011, 43, 609-612.	2.2	10
42	Giant enhancement of second harmonic generation in one-dimensional defective nonlinear photonic crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 1447-1451.	1.1	10
43	Effects of square-wave magnetic fields on synchronization of nonlinear spin precession for sensitivity improvement of M X magnetometers. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 441, 718-723.	1.0	10
44	All optical fan out able half adder circuit based on nonlinear directional coupler. <i>Optik</i> , 2017, 141, 114-123.	1.4	10
45	Enhanced Faraday rotation in one dimensional magneto-plasmonic structure due to Fano resonance. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 305-310.	1.0	10
46	Voltage controlled properties of piezo-magneto-plasmonic core/shell nanoparticles. <i>Nano Structures Nano Objects</i> , 2020, 21, 100415.	1.9	10
47	Tunable low power piezo-plasmonic random laser under external voltage. <i>Optik</i> , 2020, 207, 164482.	1.4	10
48	Characterization of Au/Fe/Au and Au/Co/Au Magneto-Plasmonic Multilayers as an Ethanol Vapor Sensor. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-7.	1.2	9
49	Detecting the thermoplasmonic effect using ellipsometry parameters for self-assembled gold nanoparticles within a polydimethylsiloxane matrix. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	9
50	Electro-optical switch based on one-dimensional graphene-plasmonic crystals. <i>Optical Materials</i> , 2021, 115, 111051.	1.7	9
51	Magneto-optical Kerr effect in glass/Cu/CoFeSiB/SnO ₂ thin films. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5266-5268.	1.5	8
52	The influence of laser annealing in the presence of longitudinal weak magnetic field on asymmetrical magnetoimpedance response of CoFeSiB amorphous ribbons. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5150-5152.	1.5	8
53	Magneto-Plasmonic Effect in Cobalt Thin Film Incorporating Core-Shell Ag@Au Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1469-1472.	0.8	8
54	Improvement of the spin polarization lifetime in the ⁸⁵ Rb vapor cell by octadecyltrichlorosilane coating. <i>Chinese Journal of Physics</i> , 2017, 55, 301-309.	2.0	8

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55	New generation of $\text{I}^{\pm}\text{-MnO}_2$ nanowires @PDMS composite as a hydrogen gas sensor. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	8
56	Unexpected large transverse magneto-optic Kerr effect at quasi-normal incidence in magnetoplasmonic crystals. Journal of Magnetism and Magnetic Materials, 2019, 476, 54-58.	1.0	8
57	The effect of dye concentration and cell thickness on dye's polymer random laser action. Optical and Quantum Electronics, 2021, 53, 1.	1.5	8
58	Magnetic behaviors of amorphous $\text{Fe}_{78}\text{Si}_9\text{B}_{13}$ thin films prepared by pulsed laser deposition. Journal of Non-Crystalline Solids, 2008, 354, 5178-5180.	1.5	7
59	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.	0.3	7
60	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.	1.1	7
61	Design of 1 μm – 3 power splitter based on photonic crystal ring resonator. Optical Engineering, 2014, 53, 115104.	0.5	7
62	Optical RNS adder and multiplier. International Journal of Computer Applications in Technology, 2015, 52, 71.	0.3	7
63	Surface Plasmon Resonance Magneto-Optical Kerr Effect in Au/Co/Au Magneto-Plasmonic Multilayer. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1565-1569.	0.8	7
64	Role of plasmonics in detection of deadliest viruses: a review. European Physical Journal Plus, 2021, 136, 675.	1.2	7
65	Membrane activity detection in cultured cells using phase-sensitive plasmonics. Optics Express, 2020, 28, 36643.	1.7	7
66	Plasmonic structures for phase-sensitive ellipsometry biosensing: a review. Optical and Quantum Electronics, 2021, 53, 1.	1.5	7
67	Design and Simulation of Graphene/2D Interlayer Surface Plasmon Resonance Biosensor Based on Ellipsometry Method. International Journal of Optics and Photonics, 2021, 15, 27-34.	0.2	7
68	Tunable optical properties in engineered one-dimensional coupled resonator optical waveguides. Optics and Laser Technology, 2012, 44, 1556-1563.	2.2	6
69	Kolarkoski sequence as an element to radiate giant forward and backward second harmonic signals. Journal of Applied Physics, 2015, 118, .	1.1	6
70	Use of nanostructures based on silver nanospire prepared by oblique angle deposition as broadband optical polarizer. Optical Engineering, 2015, 54, 107104.	0.5	6
71	Enhanced magneto-plasmonic effect in Au/Co/Au multilayers caused by exciton's plasmon strong coupling. Journal of Magnetism and Magnetic Materials, 2016, 414, 122-125.	1.0	6
72	Relaxation time dependencies of optically detected magnetic resonance harmonics in highly sensitive Mx magnetometers. Journal of Magnetism and Magnetic Materials, 2019, 469, 522-530.	1.0	6

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73	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.	1.0	6
74	Transition from incoherent to coherent random lasing by adjusting silver nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	6
75	Detection of Nicotine Effect on Colon Cells in a Plasmonic Platform. <i>Journal of Lasers in Medical Sciences</i> , 2020, 11, 8-13.	0.4	6
76	Three-input majority function with nonlinear material in all-optical domain. <i>Journal of Optics (India)</i> , 2013, 42, 349-354.	0.8	5
77	Longitudinal Magneto-Optical Kerr Effect in Magneto-Plasmonic Heterostructures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1585-1587.	0.8	5
78	Magnetoelectric Effect in Ba _{0.5} Sr _{0.5} TiO ₃ /CoFe ₂ O ₄ Thin Film Prepared by Pulsed Laser Deposition Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 565-567.	0.8	5
79	Room temperature photoinduced magnetism in [py.H] ₃ [FeCl ₄] ₂ Cl. <i>Materials Chemistry and Physics</i> , 2015, 168, 35-41.	2.0	5
80	Two-dimensional graphene-plasmonic crystals for all-optical switch applications. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	5
81	Random laser action under picosecond laser pumping. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	5
82	Optical neural stimulation using the thermoplasmonic effect of gold nano-hexagon. <i>Biomedical Optics Express</i> , 2021, 12, 6013.	1.5	5
83	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.	0.9	5
84	Trace of evanescent wave polarization by atomic vapor spectroscopy. <i>Scientific Reports</i> , 2021, 11, 21668.	1.6	5
85	Large area multi-channel plasmonic absorber based on the touching triangular dimers fabricated by angle controlled colloidal nanolithography. <i>Optics and Laser Technology</i> , 2018, 99, 203-213.	2.2	4
86	A design procedure for fan-out improvement in all-optical photonic crystal logic design. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	4
87	Combined Application of Imaging Methods for Estimating Soil Physicochemical Properties. <i>Eurasian Soil Science</i> , 2019, 52, 926-934.	0.5	4
88	Vertically emitted dual wavelength random laser based on light emitting polymers and silver nanowires double cavity structure. <i>Optik</i> , 2020, 219, 165256.	1.4	4
89	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
90	Light emitting polymers in two dimensional plasmonic multi wavelength random laser. <i>Optik</i> , 2021, 231, 166437.	1.4	4

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91	Detection of scorpion venom by optical circular dichroism method. Scientific Reports, 2021, 11, 15854.	1.6	4
92	Enhanced Polar Magneto-optical Kerr Rotation in Cobalt Thin Film Incorporating Ag Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2014, 27, 867-870.	0.8	3
93	One-step construction and examination of one-dimensional plasmonic chromium nano-grating. Optics Communications, 2015, 345, 47-51.	1.0	3
94	Enhanced Magneto-Plasmonic Activity of Cobalt Layer Perforated by Au Nanostructures. Journal of Superconductivity and Novel Magnetism, 2016, 29, 771-774.	0.8	3
95	Fantastic exciton-plasmon coupling in dye-doped poly (vinyl pyrrolidone) /gold one-dimensional nano-grating. Superlattices and Microstructures, 2018, 123, 358-373.	1.4	3
96	Tamm plasmon boosting Faraday rotation in a coupled resonator magneto-plasmonic structure. Journal of Magnetism and Magnetic Materials, 2019, 469, 364-372.	1.0	3
97	Ellipsometric spectroscopy of rubidium vapor cell at near-normal incidence. Scientific Reports, 2020, 10, 17080.	1.6	3
98	Strong Exciton-Plasmon Coupling in Waveguide-Based Plexcitonic Nanostructures. Physica Status Solidi (B): Basic Research, 2020, 257, 2000266.	0.7	3
99	Surface lattice resonance-based magneto-plasmonic switch in NiFe patterned nano-structure. Journal of Magnetism and Magnetic Materials, 2021, 517, 167387.	1.0	3
100	Red and Blue color production by flexible all-dielectric structure. Optik, 2021, 230, 166345.	1.4	3
101	Two-dimensional plasmonic multilayer as an efficient tool for low power random lasing applications. Waves in Random and Complex Media, 0, , 1-10.	1.6	3
102	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.	0.4	3
103	Plasmophore Enhancement in Fibroblast Green Fluorescent Protein-Positive Cells Excited by Smoke. ACS Omega, 2020, 5, 12278-12289.	1.6	3
104	All-Optical Parity Circuits Using Nonlinear Directional Coupler. International Journal of Modern Education and Computer Science, 2013, 5, 68-76.	2.4	3
105	Multifunctional logic gates based on resonant transmission at atomic-plasmonic structure. Scientific Reports, 2022, 12, .	1.6	3
106	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.	1.1	2
107	All optical OR/AND/XOR gates based on nonlinear directional coupler. Journal of Optics (India), 2014, 43, 146-153.	0.8	2
108	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.	0.8	2

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109	New generation of one-dimensional photonic crystal cavities as robust high-efficient frequency converter. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 25, 25-30.	1.0	2
110	Thermoelastic-tunable magnetic response of BiFeO ₃ thin film on colloidal photonic crystal substrate fabricated by pulsed laser deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600505.	0.8	2
111	Demonstration of tunable complex refractive index of graphene covered one dimensional photonic crystals. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	2
112	Transverse Tunable Magneto-Plasmonic Kerr Effect in Large Area Micro-Patterned Au/Co/Au Structures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 1465-1473.	0.8	2
113	Role of higher order plasmonic modes in one-dimensional nanogratings. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	2
114	Experimental study and micro-magnetic modeling of magnetization dynamics in L10-FePt thin film. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 479, 12-18.	1.0	2
115	Phase-Sensitive Pulse Sensor Using 2-D Active Plasmonics on Conformal Substrates. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 4379-4384.	1.6	2
116	Manipulating plasmon-exciton interactions in the plasmonic waveguide structure based on the dispersion relations concept. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	2
117	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.	1.5	2
118	One dimensional efficient photocatalyst based on plasmonic grating. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	2
119	Random laser action in the visible region by dye-based silver nano-hexagonal colloid media. <i>Physica Scripta</i> , 2021, 96, 115505.	1.2	2
120	Low threshold and coherence random laser based on ZnO nanorods. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	2
121	Nonlinear refractive index of the gold nanoparticle/silicon quantum dot hybrid structure. <i>Physica Scripta</i> , 2022, 97, 030001.	1.2	2
122	Engineered magneto-optical response of cobalt ferrite thin films deposited on self-assembled colloidal crystal. <i>Thin Solid Films</i> , 2017, 638, 81-88.	0.8	1
123	Thermoplasmonic effect onto Toad physiology signals by plasmonic microchip structure. <i>Scientific Reports</i> , 2021, 11, 17287.	1.6	1
124	Flexible neuro-plasmonic sensor based on patterned two dimensional structure to detect methadone. , 2020, , .		1
125	Blue-shift ultrasensitivity using rhombus-shaped plasmonic crystal on Si ₃ N ₄ membrane. <i>Optical Materials Express</i> , 2020, 10, 1649.	1.6	1
126	Flat and Flexible 2D Plasmonic Crystal for Color Production. <i>International Journal of Optics and Photonics</i> , 2021, 15, 93-100.	0.2	1

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127	Enhanced photocatalytic activity of two dimensional SrTiO ₃ nano structures for dye degradation. Optical and Quantum Electronics, 2022, 54, .	1.5	1
128	Plasmon- exciton induced circular dichroism in Gold/PMMA (RB) complex. Journal of Materials Science: Materials in Electronics, 2017, 28, 13176-13184.	1.1	0
129	Localized to Propagating Surface Plasmon Resonance Transition in Ni-Au Magneto-Plasmonic Gratings. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1167-1171.	0.8	0
130	Bio-compatible and highly sensitive two-dimensional plasmonic sensor. Optical and Quantum Electronics, 2019, 51, 1.	1.5	0
131	Adjustable Plasmonic Bandgap in One-Dimensional Nanograting Based on Localized and Propagating Surface Plasmons. International Journal of Optics and Photonics, 2019, 13, 97-102.	0.2	0
132	Plasmonic Imaging in Thin Layer of PVP Contains silver nanowires. International Journal of Optics and Photonics, 2020, 14, 109-116.	0.2	0
133	Blue-shift ultrasensitivity using rhombus-shaped plasmonic crystal on Si ₃ N ₄ membrane. Optical Materials Express, 2020, 10, 1649.	1.6	0