

# Rafael Salas-Montiel

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

814  
citations

567281

15  
h-index

501196

28  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1136  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband unidirectional transverse light scattering in a V-shaped silicon nanoantenna. <i>Optics Express</i> , 2022, 30, 7918.	3.4	11
2	Perfect magnetic mirror based on magnetic dipole scattering in all-dielectric resonators. <i>Journal of Applied Physics</i> , 2022, 131, 153101.	2.5	3
3	Plasmonic-Induced Transparencies in an Integrated Metaphotonic System. <i>Nanomaterials</i> , 2022, 12, 1701.	4.1	4
4	Coupled localized surface plasmon resonances in periodic arrays of gold nanowires on ion-exchange waveguide technology. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 025801.	2.2	8
5	Near-field probing of dielectric screening by hexagonal boron nitride in graphene integrated on silicon photonics. <i>Nanotechnology</i> , 2021, 32, 315207.	2.6	3
6	Cherenkov radiation in integrated nanophotonic structures. <i>Journal of Applied Physics</i> , 2021, 129, 233103.	2.5	1
7	Waveguide efficient directional coupling and decoupling via an integrated plasmonic nanoantenna. <i>Optics Express</i> , 2021, 29, 29034.	3.4	2
8	Large depth of focus plasmonic metalenses based on Fresnel biprism. <i>AIP Advances</i> , 2020, 10, 045025.	1.3	2
9	Excitation of surface plasmon polaritons in a gold nanoslab on ion-exchanged waveguide technology. <i>Applied Optics</i> , 2020, 59, 572.	1.8	12
10	Engineering colors in all-dielectric metasurfaces: metamodeling approach. <i>Optics Letters</i> , 2020, 45, 89.	3.3	12
11	Observation of SelÃ©nyi rings in the diffraction patterns of layered samples with periodic arrays of cylindrical structures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 940.	1.5	0
12	Differential reflectivity spectroscopy on single patch nanoantennas. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	1
13	Magnetic mirror metasurface based on the in-phase excitation of magnetic dipole and electric quadrupole resonances. <i>Journal of Applied Physics</i> , 2019, 125, 243103.	2.5	13
14	Standing-wave spectrometry in silicon nano-waveguides using reflection-based near-field scanning optical microscopy. <i>Chinese Physics B</i> , 2019, 28, 010702.	1.4	3
15	Plasmonic-Based Subwavelength Graphene-on-hBN Modulator on Silicon Photonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-6.	2.9	23
16	Nanoscale plasmonic TM-pass polarizer integrated on silicon photonics. <i>Nanoscale</i> , 2019, 11, 20685-20692.	5.6	28
17	In-plane electric field confinement engineering in graphene-based hybrid plasmonic waveguides. <i>Applied Optics</i> , 2019, 58, 7503.	1.8	15
18	Metamodeling of high-contrast-index gratings for color reproduction. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 79.	1.5	15

#	ARTICLE	IF	CITATIONS
19	Optical nanoheating of resonant silicon nanoparticles. <i>Optics Express</i> , 2019, 27, 30971.	3.4	6
20	All-fiber reflection-based scattering NSOM with low phase drift for guided-wave imaging on a chip. , 2019, , .		0
21	Optimization of all-dielectric structures for color generation. <i>Applied Optics</i> , 2018, 57, 3959.	1.8	14
22	Experimental realization of deep-subwavelength confinement in dielectric optical resonators. <i>Science Advances</i> , 2018, 4, eaat2355.	10.3	117
23	Reciprocity and Babinet's principles applied to the enhancement of the electric and magnetic local density of states in integrated plasmonics on silicon photonics. <i>Applied Optics</i> , 2018, 57, 9155.	1.8	11
24	Imaging of guided waves using an all-fiber reflection-based NSOM with self-compensation of a phase drift. <i>Optics Letters</i> , 2018, 43, 4863.	3.3	5
25	Ultraviolet, blue, and green InGaN-based light-emitting diodes functionalized with ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2017, 708, 612-618.	5.5	15
26	Indium gallium nitride-based ultraviolet, blue, and green light-emitting diodes functionalized with shallow periodic hole patterns. <i>Scientific Reports</i> , 2017, 7, 45726.	3.3	19
27	Local density of electromagnetic states in plasmonic nanotapers: spatial resolution limits with nitrogen-vacancy centers in diamond nanospheres. <i>Nanotechnology</i> , 2017, 28, 205207.	2.6	10
28	Surface plasmons in suspended graphene: launching with in-plane gold nanoantenna and propagation properties. <i>Optics Express</i> , 2017, 25, 17306.	3.4	6
29	Numerical analysis of tip-localized surface plasmon resonances in periodic arrays of gold nanowires with triangular cross section. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2147.	2.1	9
30	Bowtie Photonic Crystal with Deep Subwavelength Mode Confinement in a Dielectric Material. , 2017, , .		1
31	Hybrid integrated optical waveguides in glass for enhanced visible photoluminescence of nanoemitters. <i>Applied Optics</i> , 2016, 55, 10263.	2.1	20
32	Study of $\text{SiO}_2$ (1 &lt; x < 2) Thin-Film Optical Waveguides. <i>Journal of Lightwave Technology</i> , 2016, 34, 4926-4932.	4.6	5
33	A Concentric Plasmonic Platform for the Efficient Excitation of Surface Plasmon Polaritons. <i>Plasmonics</i> , 2016, 11, 175-182.	3.4	9
34	Optical near field in integrated plasmonics on silicon photonics. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
35	On-Chip Hybrid Photonic-Plasmonic Light Concentrator for Nanofocusing in an Integrated Silicon Photonics Platform. <i>Nano Letters</i> , 2015, 15, 849-856.	9.1	78
36	Optimal length of ZnO nanorods for improving the light-extraction efficiency of blue InGaN light-emitting diodes. <i>Optics Express</i> , 2015, 23, 23195.	3.4	11

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37	Topology assisted self-organization of colloidal nanoparticles: application to 2D large-scale nanomastering. Beilstein Journal of Nanotechnology, 2014, 5, 1203-1209.	2.8	16
38	Theoretical analysis of Bloch mode propagation in an integrated chain of gold nanowires. Photonics Research, 2014, 2, 24.	7.0	17
39	Observation of Near-Field Dipolar Interactions Involved in a Metal Nanoparticle Chain Waveguide. Nano Letters, 2013, 13, 1000-1006.	9.1	63
40	Waveguide-coupled nanowire as an optical antenna. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2347.	1.5	22
41	Optical near field imaging of localized surface plasmons modes in metallic nanostructures integrated on dielectric waveguides. Proceedings of SPIE, 2013, , .	0.8	0
42	Quantitative analysis and near-field observation of strong coupling between plasmonic nanogap and silicon waveguides. Applied Physics Letters, 2012, 100, .	3.3	25
43	Light confinement and propagation characteristics in plasmonic gap waveguides on silicon. Proceedings of SPIE, 2011, , .	0.8	1
44	Selective co-doped erbium Ti:LiNbO <sub>3</sub> waveguide amplifiers. Proceedings of SPIE, 2010, , .	0.8	0
45	Efficient Directional Coupling between Silicon and Copper Plasmonic Nanoslot Waveguides: toward Metal-Oxide-Silicon Nanophotonics. Nano Letters, 2010, 10, 2922-2926.	9.1	148
46	Er-Doped Optical Waveguide Amplifiers in X-Cut Lithium Niobate by Selective Codiffusion. IEEE Photonics Technology Letters, 2010, 22, 362-364.	2.5	5
47	Metal-oxide-silicon nanophotonics: An efficient integration of plasmonic nano-slots with silicon waveguides. , 2010, , .		0
48	Hybrid Neodymium-doped passively Q-switched waveguide laser. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 181-184.	3.5	24
49	Hybrid Nd <sup>3+</sup> -doped passively Q-switched waveguide laser made by ion exchange. , 2008, , .		0
50	Nanowires Integrated to Optical Waveguides. , 0, , .		1