

# Borja Sepulveda

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,962

citations

33

h-index

62

g-index

63

ext. papers

4,448

ext. citations

7.5

avg, IF

5.3

L-index

#	Paper	IF	Citations
62	Elastic plasmonic-enhanced Fabry-Perot cavities with ultrasensitive stretching tunability. <i>Advanced Materials</i> , <b>2021</b> , e2106731	24	1
61	Ultrabroadband light absorbing Fe/polymer flexible metamaterial for soft opto-mechanical devices. <i>Applied Materials Today</i> , <b>2021</b> , 23, 101052	6.6	5
60	Mechanochromic Detection for Soft Opto-Magnetic Actuators. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47871-47881	9.5	1
59	Hybrid Ni@ZnO@ZnS-Microalgae for Circular Economy: A Smart Route to the Efficient Integration of Solar Photocatalytic Water Decontamination and Bioethanol Production. <i>Advanced Science</i> , <b>2020</b> , 7, 1902447	13.6	40
58	Self-Assembly of Mechanoplasmonic Bacterial Cellulose-Metal Nanoparticle Composites. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004766	15.6	13
57	Highly reduced ecotoxicity of ZnO-based micro/nanostructures on aquatic biota: Influence of architecture, chemical composition, fixation, and photocatalytic efficiency. <i>Water Research</i> , <b>2020</b> , 169, 115210	12.5	44
56	Precise Size Control of the Growth of FeO Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. <i>ACS Nano</i> , <b>2019</b> , 13, 7716-7728	16.7	41
55	Water-mediated photo-induced reduction of platinum films. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1288-1293	2.4	3
54	Highly active ZnO-based biomimetic fern-like microleaves for photocatalytic water decontamination using sunlight. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 248, 129-146	21.8	76
53	Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomains. <i>Applied Materials Today</i> , <b>2018</b> , 12, 430-440	6.6	15
52	Unraveling the Operational Mechanisms of Chemically Propelled Motors with Micropumps. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 1921-1930	24.3	24
51	Simultaneous Local Heating/Thermometry Based on Plasmonic Magneto-chromic Nanoheaters. <i>Small</i> , <b>2018</b> , 14, e1800868	11	24
50	Metamirrors Based on Arrays of Silicon Nanowires with Height Gradients. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600933	8.1	1
49	Seeded Growth Synthesis of Au@Fe <sub>3</sub> O <sub>4</sub> Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4022-4035	9.6	53
48	Photochemically Activated Motors: From Electrokinetic to Diffusion Motion Control. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44948-44953	9.5	9
47	Fabrication of well-ordered silicon nanopillars embedded in a microchannel via metal-assisted chemical etching: a route towards an opto-mechanical biosensor. <i>RSC Advances</i> , <b>2016</b> , 6, 85666-85674	3.7	5
46	Novel nanoplasmonic biosensor integrated in a microfluidic channel <b>2015</b> ,		2

45	Highly sensitive dendrimer-based nanoplasmonic biosensor for drug allergy diagnosis. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 115-23	11.8	50
44	Tailored Height Gradients in Vertical Nanowire Arrays via Mechanical and Electronic Modulation of Metal-Assisted Chemical Etching. <i>Small</i> , <b>2015</b> , 11, 4201-8	11	6
43	Molecular inversion probe-based SPR biosensing for specific, label-free and real-time detection of regional DNA methylation. <i>Chemical Communications</i> , <b>2014</b> , 50, 3585-8	5.8	59
42	Trends and challenges of refractometric nanoplasmonic biosensors: a review. <i>Analytica Chimica Acta</i> , <b>2014</b> , 806, 55-73	6.6	224
41	Substrate Effect on the Refractive Index Sensitivity of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 24680-24687	3.8	54
40	Plasmonics and Metamaterials with Transparent Conducting Oxides. <i>ECS Transactions</i> , <b>2014</b> , 64, 291-298		2
39	Direct detection of protein biomarkers in human fluids using site-specific antibody immobilization strategies. <i>Sensors</i> , <b>2014</b> , 14, 2239-58	3.8	60
38	Optimizing the Refractive Index Sensitivity of Plasmonically Coupled Gold Nanoparticles. <i>Plasmonics</i> , <b>2014</b> , 9, 773-780	2.4	34
37	Spatial Distribution of Optical Near-Fields in Plasmonic Gold Sphere Segment Voids. <i>Plasmonics</i> , <b>2013</b> , 8, 921-930	2.4	5
36	Sensing with magnetic dipolar resonances in semiconductor nanospheres. <i>Optics Express</i> , <b>2013</b> , 21, 23007-20	3.20	57
35	Enhanced light extraction in ITO-free OLEDs using double-sided printed electrodes. <i>Nanoscale</i> , <b>2012</b> , 4, 3495-500	7.7	14
34	Figures of Merit for Refractometric LSPR Biosensing <b>2012</b> , 317-331		3
33	All-optical phase modulation for integrated interferometric biosensors. <i>Optics Express</i> , <b>2012</b> , 20, 7195-205	9.5	75
32	Transparent conducting oxides for active hybrid metamaterial devices. <i>Journal of Optics (United Kingdom)</i> , <b>2012</b> , 14, 114007	1.7	27
31	Towards a complete Lab-On-Chip system using integrated Mach-Zehnder interferometers. <i>Optica Pura Y Aplicada</i> , <b>2012</b> , 45, 87-95	1	5
30	Guiding light in monolayers of sparse and random plasmonic meta-atoms. <i>ACS Nano</i> , <b>2011</b> , 5, 9179-86	16.7	23
29	Suitable combination of noble/ferromagnetic metal multilayers for enhanced magneto-plasmonic biosensing. <i>Optics Express</i> , <b>2011</b> , 19, 8336-46	3.3	90
28	Improved Biosensing Capability with Novel Suspended Nanodisks. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5344-5351	3.8	72

27	Polypeptide folding-mediated tuning of the optical and structural properties of gold nanoparticle assemblies. <i>Nano Letters</i> , <b>2011</b> , 11, 5564-73	11.5	52
26	Optical Forces in Plasmonic Nanoparticle Dimers. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7472-7479	3.8	69
25	Cobalt dependence of the magneto-optical response in magnetoplasmonic nanodisks. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 043114	3.4	57
24	Plasmon-induced magneto-optical activity in nanosized gold disks. <i>Physical Review Letters</i> , <b>2010</b> , 104, 147401	7.4	124
23	Au/Fe/Au multilayer transducers for magneto-optic surface plasmon resonance sensing. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 054502	2.5	77
22	Identification of the optimal spectral region for plasmonic and nanoplasmonic sensing. <i>ACS Nano</i> , <b>2010</b> , 4, 349-57	16.7	150
21	Exchange bias in laterally oxidized Au/Co/Au nanopillars. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 062502	3.4	25
20	Surface plasmon resonance biosensors for highly sensitive detection in real samples <b>2009</b> ,		10
19	LSPR-based nanobiosensors. <i>Nano Today</i> , <b>2009</b> , 4, 244-251	17.9	748
18	Sensitivity enhancement of nanoplasmonic sensors in low refractive index substrates. <i>Optics Express</i> , <b>2009</b> , 17, 2015-23	3.3	60
17	Shape effects in the localized surface plasmon resonance of single nanoholes in thin metal films. <i>Optics Express</i> , <b>2008</b> , 16, 5609-16	3.3	57
16	Silicon Photonic Biosensors for Lab-on-a-Chip Applications. <i>Advances in Optical Technologies</i> , <b>2008</b> , 2008, 1-6		61
15	Plasmonic Au/Co/Au nanosandwiches with enhanced magneto-optical activity. <i>Small</i> , <b>2008</b> , 4, 202-5	11	199
14	Nanohole Plasmons in Optically Thin Gold Films. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 1207-1212	3.8	136
13	Magneto-optical phase modulation in integrated Mach-Zehnder interferometric sensors. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 134, 339-347	3.9	25
12	Optical antennas based on coupled nanoholes in thin metal films. <i>Nature Physics</i> , <b>2007</b> , 3, 884-889	16.2	90
11	Nanometric control of the distance between plasmonic nanoparticles using optical forces. <i>Optics Express</i> , <b>2007</b> , 15, 14914-20	3.3	23
10	Size mediated control of the optical and magneto-optical properties of Co nanoparticles in ZrO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 074320	2.5	14

9	Optical biosensor microsystems based on the integration of highly sensitive Mach-Zehnder interferometer devices. <i>Journal of Optics</i> , <b>2006</b> , 8, S561-S566		117
8	Highly sensitive detection of biomolecules with the magneto-optic surface-plasmon-resonance sensor. <i>Optics Letters</i> , <b>2006</b> , 31, 1085-7	3	208
7	Magneto-optic effects in surface-plasmon-polaritons slab waveguides. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 945-955	4	97
6	Integrated micro- and nano-optical biosensor silicon devices CMOS compatible <b>2004</b> , 5357, 96		6
5	Matrix analysis of discontinuities in nonreciprocal waveguides: analytical description for magneto-optical slab waveguides. <i>Journal of Lightwave Technology</i> , <b>2004</b> , 22, 1772-1781	4	5
4	Integrated optical silicon IC compatible nanodevices for biosensing applications <b>2003</b> ,		3
3	Integrated Mach-Zehnder interferometer based on ARROW structures for biosensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 92, 151-158	8.5	99
2	An integrated optical interferometric nanodevice based on silicon technology for biosensor applications. <i>Nanotechnology</i> , <b>2003</b> , 14, 907-912	3.4	218
1	Linear and quadratic magneto-optical Kerr effects in continuous and granular ultrathin monocrystalline Fe films. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	15