

# Victor Rosello Espinosa

## List of Publications by Citations

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44  
papers

422  
citations

10  
h-index

18  
g-index

61  
ext. papers

522  
ext. citations

2.2  
avg, IF

3.18  
L-index

#	Paper	IF	Citations
44	Theoretical prediction of the nondiffractive propagation of sonic waves through periodic acoustic media. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	75
43	Subdiffractive propagation of ultrasound in sonic crystals. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	58
42	Self collimation of ultrasound in a three-dimensional sonic crystal. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 164104	3.4	29
41	Enhanced fish bending model for automatic tuna sizing using computer vision. <i>Computers and Electronics in Agriculture</i> , <b>2018</b> , 150, 52-61	6.5	26
40	Detection potential of the KM3NeT detector for high-energy neutrinos from the Fermi bubbles. <i>Astroparticle Physics</i> , <b>2013</b> , 42, 7-14	2.4	22
39	Propagation of sound beams behind sonic crystals. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	17
38	Formation of collimated sound beams by three-dimensional sonic crystals. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 104910	2.5	13
37	Expansion cone for the 3-inch PMTs of the KM3NeT optical modules. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, T03006-T03006	1	12
36	Detection and target strength measurements of uneaten feed pellets with a single beam echosounder. <i>Aquacultural Engineering</i> , <b>2017</b> , 78, 216-220	3	11
35	Monitoring fish weight using pulse-echo waveform metrics. <i>Aquacultural Engineering</i> , <b>2017</b> , 77, 125-131	3	11
34	Nonlinear change of on-axis pressure and intensity maxima positions and its relation with the linear focal shift effect. <i>Ultrasonics</i> , <b>2008</b> , 48, 678-86	3.5	10
33	The effect of low frequency noise on the behaviour of juvenile Sparus aurata. <i>Journal of the Acoustical Society of America</i> , <b>2020</b> , 147, 3795	2.2	9
32	Automatic Bluefin Tuna sizing using a stereoscopic vision system. <i>ICES Journal of Marine Science</i> , <b>2018</b> , 75, 390-401	2.7	9
31	A prototype for the acoustic triangulation system of the KM3NeT deep sea neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 617, 459-461	1.2	9
30	Types I and II intermittencies in a cascade laser model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1995</b> , 206, 359-364	2.3	9
29	Automatic Bluefin Tuna ( <i>Thunnus thynnus</i> ) biomass estimation during transfers using acoustic and computer vision techniques. <i>Aquacultural Engineering</i> , <b>2019</b> , 85, 22-31	3	8
28	R&D towards the acoustic positioning system of KM3NeT. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 626-627, S214-S216	1.2	7

27	Simultaneous self-collimation of fundamental and second-harmonic in sonic crystals. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 151905	3.4	7
26	Nonlinear dynamics of a class-A two-photon laser with injected signal. <i>Journal of Modern Optics</i> , <b>1996</b> , 43, 2311-2336	1.1	7
25	Domain wall dynamics in an optical Kerr cavity. <i>Physical Review E</i> , <b>2005</b> , 71, 066209	2.4	6
24	FIRST ACTIVITIES IN ACOUSTIC DETECTION OF PARTICLES IN UPV. <i>International Journal of Modern Physics A</i> , <b>2006</b> , 21, 137-141	1.2	5
23	Strong on-axis focal shift and its nonlinear variation in low-Fresnel-number ultrasound beams. <i>Journal of the Acoustical Society of America</i> , <b>2006</b> , 119, 3618-3624	2.2	5
22	Influence of Light Polarization on the Behaviour of a Resonant Cascade Laser. <i>Journal of Modern Optics</i> , <b>1995</b> , 42, 895-911	1.1	5
21	Use of parametric acoustic sources to generate neutrino-like signals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, S208-S211	1.2	4
20	Stationary emission and stability of a detuned cascade laser. <i>Journal of Modern Optics</i> , <b>1997</b> , 44, 83-108	1.1	4
19	Nonlinear dynamics of a class-a two-photon laser with injected signal in cascade systems. <i>Journal of Modern Optics</i> , <b>1999</b> , 46, 1483-1493	1.1	4
18	Structural similarities and differences among attractors and their intensity maps in the laser-Lorenz model. <i>Optics Communications</i> , <b>1995</b> , 117, 367-384	2	4
17	Class-B two-photon Fabry-Pérot laser. <i>Optics Communications</i> , <b>1998</b> , 155, 292-296	2	3
16	Calibration of sensors for acoustic detection of neutrinos. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 81, 012015	0.3	3
15	Design and Application of a Passive Acoustic Monitoring System in the Spanish Implementation of the Marine Strategy Framework Directive		3
14	New Insights into the Design and Application of a Passive Acoustic Monitoring System for the Assessment of the Good Environmental Status in Spanish Marine Waters. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
13	Numerical Simulation of Target Strength Measurements from Near to Far Field of Fish Using the Method of Fundamental Solutions. <i>Acta Acustica United With Acustica</i> , <b>2018</b> , 104, 25-38	1.5	3
12	Relationship between weight and linear dimensions of Bluefin tuna ( <i>Thunnus thynnus</i> ) following fattening on western Mediterranean farms. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200406	3.7	2
11	R&D studies for the development of a compact transmitter able to mimic the acoustic signature of a UHE neutrino interaction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 662, S206-S209	1.2	2
10	Self-organization of ultrasound in viscous fluids. <i>Europhysics Letters</i> , <b>2010</b> , 92, 10003	1.6	2

9	Bistable and dynamic states of parametrically excited ultrasound in a fluid-filled interferometer. <i>Journal of the Acoustical Society of America</i> , <b>2009</b> , 125, 3555-60	2.2	2
8	Self-pulsing dynamics of ultrasound in a magnetoacoustic resonator. <i>Physical Review E</i> , <b>2005</b> , 72, 036611	2.4	2
7	Nonlinear dynamics of a two-photon Fabry-Pérot laser. <i>Optics Communications</i> , <b>2000</b> , 174, 195-204	2	2
6	Vertical Configuration of a Side Scan Sonar for the Monitoring of Posidonia oceanica Meadows. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 1332	2.4	2
5	Influence of fish backbone model geometrical features on the numerical target strength of swimbladdered fish. <i>ICES Journal of Marine Science</i> , <b>2020</b> , 77, 2870-2881	2.7	2
4	System of Reciprocal Acoustic Sensors for Monitoring Sea Currents <b>2008</b> ,		1
3	Automatic Bluefin Tuna Sizing with a Combined Acoustic and Optical Sensor. <i>Sensors</i> , <b>2020</b> , 20,	3.8	1
2	One- and two-photon lasers with injected signal in a high-Q fabry-Pérot cavity. <i>Journal of Modern Optics</i> , <b>2000</b> , 47, 1347-1357	1.1	
1	A Risk-Based Model Using Communication Distance Reduction for the Assessment of Underwater Continuous Noise: An Application to the Bottlenose Dolphin ( <i>Tursiops truncatus</i> ) Inhabiting the Spanish North Atlantic Marine Demarcation. <i>Journal of Marine Science and Engineering</i> , <b>2022</b> , 10, 605	2.4	