

# Luis MarÃ- a M Hervella-Nieto

## List of Publications by Year in descending order

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20  
papers

647  
citations

759055

12  
h-index

794469

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

533  
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimal perfectly matched layer with unbounded absorbing function for time-harmonic acoustic scattering problems. <i>Journal of Computational Physics</i> , 2007, 223, 469-488.	1.9	171
2	Review in Sound Absorbing Materials. <i>Archives of Computational Methods in Engineering</i> , 2008, 15, 311-342.	6.0	138
3	FINITE ELEMENT COMPUTATION OF THREE-DIMENSIONAL ELASTOACOUSTIC VIBRATIONS. <i>Journal of Sound and Vibration</i> , 1999, 219, 279-306.	2.1	53
4	Perfectly Matched Layers for Time-Harmonic Second Order Elliptic Problems. <i>Archives of Computational Methods in Engineering</i> , 2010, 17, 77-107.	6.0	47
5	An Exact Bounded Perfectly Matched Layer for Time-Harmonic Scattering Problems. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 312-338.	1.3	45
6	Error Estimates for Low-Order Isoparametric Quadrilateral Finite Elements for Plates. <i>SIAM Journal on Numerical Analysis</i> , 2003, 41, 1751-1772.	1.1	38
7	Approximation of the vibration modes of a plate by Reissner-Mindlin equations. <i>Mathematics of Computation</i> , 1999, 68, 1447-1464.	1.1	27
8	An exact bounded PML for the Helmholtz equation. <i>Comptes Rendus Mathematique</i> , 2004, 339, 803-808.	0.1	27
9	Finite element approximation of free vibration of folded plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 1360-1367.	3.4	19
10	Finite element computation of the vibrations of a plate-fluid system with interface damping. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 3021-3038.	3.4	17
11	Finite element analysis of the vibration problem of a plate coupled with a fluid. <i>Numerische Mathematik</i> , 2000, 86, 591-616.	0.9	15
12	Finite element analysis of pressure formulation of the elastoacoustic problem. <i>Numerische Mathematik</i> , 2003, 95, 29-51.	0.9	15
13	VALIDATION OF ACOUSTIC MODELS FOR TIME-HARMONIC DISSIPATIVE SCATTERING PROBLEMS. <i>Journal of Computational Acoustics</i> , 2007, 15, 95-121.	1.0	11
14	Computation of the vibration modes of plates and shells by low-order MITC quadrilateral finite elements. <i>Computers and Structures</i> , 2003, 81, 615-628.	2.4	9
15	IMPEDANCE PREDICTION FOR SEVERAL POROUS LAYERS ON A MOVING PLATE: APPLICATION TO A PLATE COUPLED TO AN AIR CAVITY. <i>Journal of Computational Acoustics</i> , 2011, 19, 379-394.	1.0	4
16	Physical and Spurious Modes in Mixed Finite Element Formulation for the Galbrun Equation. <i>Acta Acustica United With Acustica</i> , 2014, 100, 493-512.	0.8	4
17	Comparison of pressure and displacement formulations for finite elements in linear time-harmonic acoustics. <i>Computers and Structures</i> , 2015, 151, 49-57.	2.4	4
18	A modal synthesis method for the elastoacoustic vibration problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2002, 36, 121-142.	0.8	2

#	ARTICLE	IF	CITATIONS
19	Numerical Computation of the Acoustic Pressure in a Coupled Covered Plate/Fluid Problem: Experimental Validation. <i>Acta Acustica United With Acustica</i> , 2010, 96, 317-327.	0.8	1
20	Numerical simulation of passive“active cells with microperforated plates or porous veils. <i>Journal of Sound and Vibration</i> , 2010, 329, 3233-3246.	2.1	0