Rui M S Pereira

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Teacher's experiences in PBL: implications for practice. European Journal of Engineering Education, 2016, 41, 123-141.	2.3	40
2	A sixth-order finite volume method for multidomain convection–diffusion problem with discontinuous coefficients. Computer Methods in Applied Mechanics and Engineering, 2013, 267, 43-64.	6.6	32
3	Broadband Optical Absorption Caused by the Plasmonic Response of Coalesced Au Nanoparticles Embedded in a TiO ₂ Matrix. Journal of Physical Chemistry C, 2016, 120, 16931-16945.	3.1	31
4	Gas Sensors Based on Localized Surface Plasmon Resonances: Synthesis of Oxide Films with Embedded Metal Nanoparticles, Theory and Simulation, and Sensitivity Enhancement Strategies. Applied Sciences (Switzerland), 2021, 11, 5388.	2.5	29
5	Thin films composed of gold nanoparticles dispersed in a dielectric matrix: The influence of the host matrix on the optical and mechanical responses. Thin Solid Films, 2015, 596, 8-17.	1.8	28
6	Optimal Control Applied to an Irrigation Planning Problem. Mathematical Problems in Engineering, 2016, 2016, 1-10.	1.1	16
7	Surface Plasmon Resonance in a Metallic Nanoparticle Embedded in a Semiconductor Matrix: Exciton–Plasmon Coupling. ACS Photonics, 2019, 6, 204-210.	6.6	16
8	Ag fractals formed on top of a porous TiO ₂ thin film. Physica Status Solidi - Rapid Research Letters, 2016, 10, 530-534.	2.4	13
9	NANOPTICS: In-depth analysis of NANomaterials for OPTICal localized surface plasmon resonance Sensing. SoftwareX, 2020, 12, 100522.	2.6	13
10	Investigation on the Baumgarte Stabilization Method for Dynamic Analysis of Constrained Multibody Systems. , 2009, , 305-312.		10
11	Analysis of Effective Efficiency in decision making for irrigation interventions. Water Resources, 2012, 39, 700-707.	0.9	10
12	Effect of clustering on the surface plasmon band in thin films of metallic nanoparticles. Journal of Nanophotonics, 2014, 9, 093796.	1.0	9
13	Viscous–inviscid interaction in transonic Prandtl–Meyer flow. Journal of Fluid Mechanics, 2006, 568, 387.	3.4	8
14	Effective efficiency in water resources management using efficiency elasticity index. Water and Environment Journal, 2011, 25, 532-539.	2.2	8
15	Probing spatial correlations in a system of polarizable nanoparticles via measuring its optical extinction spectrum. Europhysics Letters, 2013, 102, 67001.	2.0	7
16	Very high-order Cartesian-grid finite difference method on arbitrary geometries. Journal of Computational Physics, 2021, 434, 110217.	3.8	7
17	Optimal control applied to an irrigation planning problem: a real case study in Portugal. International Journal of Hydrology Science and Technology, 2019, 9, 173.	0.3	6
18	Optimal Control for an Irrigation Planning Problem: Characterisation of Solution and Validation of the Numerical Results. Lecture Notes in Electrical Engineering, 2015, , 157-167.	0.4	5

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#	Article	IF	CITATIONS
19	Irrigation planning: Replanning and numerical solution. , 2013, , .		3
20	Irrigation planning: An optimal control approach. , 2013, , .		3
21	Optimized Planning of Different Crops in a Field Using Optimal Control in Portugal. Sustainability, 2018, 10, 4648.	3.2	3
22	Kinematics of the Roller Motion and CAM Size Optimization of Disc CAM-Follower Mechanisms With Translating Roller Followers. , 2009, , .		2
23	Optimal Control of Irrigation with Field Capacity Modes: Characterizing the Minimal Water Consumption Solution. , 2018, , .		2
24	An Introduction to the Hyperspace of Hargreaves-Samani Reference Evapotranspiration. Sustainability, 2018, 10, 4277.	3.2	2
25	An introduction to the hyperspace of Penman-Monteith reference evapotranspiration. International Journal of Hydrology Science and Technology, 2019, 9, 48.	0.3	2
26	Yet a Smarter Irrigation System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 337-346.	0.3	2
27	Numerical simulation of breast reduction with a new knitting condition. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02796.	2.1	1
28	Hands on Experiments about Water Needs in Agriculture and Their Mathematical Modelling under Climate Change. , 2019, , .		1
29	Exercise generation with the system Passarola. , 2013, , .		1
30	Is it possible to assess spatial correlations in a system of polarizable particles by measuring its optical response?. Proceedings of SPIE, 2011, , .	0.8	0
31	Optical response of fractal aggregates of polarizable particles. , 2014, , .		0
32	Back Cover: Ag fractals formed on top of a porous TiO ₂ thin film (Phys. Status Solidi RRL) Tj ETQqO	0 0 rgBT /	Overlock 10 1
33	Graphene and polarisable nanoparticles: Looking good together?. , 2016, , .		0

Electromagnetic properties of a monolayer of polarisable particles deposited on graphene. , 2017, , .