

Rui M S Pereira

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

311
citations

933264

10
h-index

887953

17
g-index

38
all docs

38
docs citations

38
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Teacher's experiences in PBL: implications for practice. <i>European Journal of Engineering Education</i> , 2016, 41, 123-141.	1.5	40
2	A sixth-order finite volume method for multidomain convection–diffusion problem with discontinuous coefficients. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 267, 43-64.	3.4	32
3	Broadband Optical Absorption Caused by the Plasmonic Response of Coalesced Au Nanoparticles Embedded in a TiO ₂ Matrix. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16931-16945.	1.5	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. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5388.	1.3	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. <i>Thin Solid Films</i> , 2015, 596, 8-17.	0.8	28
6	Optimal Control Applied to an Irrigation Planning Problem. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-10.	0.6	16
7	Surface Plasmon Resonance in a Metallic Nanoparticle Embedded in a Semiconductor Matrix: Exciton–Plasmon Coupling. <i>ACS Photonics</i> , 2019, 6, 204-210.	3.2	16
8	Ag fractals formed on top of a porous TiO ₂ thin film. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 530-534.	1.2	13
9	NANOPTICS: In-depth analysis of NANomaterials for OPTICAL localized surface plasmon resonance Sensing. <i>SoftwareX</i> , 2020, 12, 100522.	1.2	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. <i>Water Resources</i> , 2012, 39, 700-707.	0.3	10
12	Effect of clustering on the surface plasmon band in thin films of metallic nanoparticles. <i>Journal of Nanophotonics</i> , 2014, 9, 093796.	0.4	9
13	Viscous–inviscid interaction in transonic Prandtl–Meyer flow. <i>Journal of Fluid Mechanics</i> , 2006, 568, 387.	1.4	8
14	Effective efficiency in water resources management using efficiency elasticity index. <i>Water and Environment Journal</i> , 2011, 25, 532-539.	1.0	8
15	Probing spatial correlations in a system of polarizable nanoparticles via measuring its optical extinction spectrum. <i>Europhysics Letters</i> , 2013, 102, 67001.	0.7	7
16	Very high-order Cartesian-grid finite difference method on arbitrary geometries. <i>Journal of Computational Physics</i> , 2021, 434, 110217.	1.9	7
17	Optimal control applied to an irrigation planning problem: a real case study in Portugal. <i>International Journal of Hydrology Science and Technology</i> , 2019, 9, 173.	0.2	6
18	Optimal Control for an Irrigation Planning Problem: Characterisation of Solution and Validation of the Numerical Results. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 157-167.	0.3	5

#	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.	1.6	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.	1.6	2
25	An introduction to the hyperspace of Penman-Monteith reference evapotranspiration. International Journal of Hydrology Science and Technology, 2019, 9, 48.	0.2	2
26	Yet a Smarter Irrigation System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 337-346.	0.2	2
27	Numerical simulation of breast reduction with a new knitting condition. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02796.	1.0	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 ETQq0 0 Q rgBT /Overlock 10 T	1.2	0
33	Graphene and polarisable nanoparticles: Looking good together?. , 2016, , .		0
34	Electromagnetic properties of a monolayer of polarisable particles deposited on graphene. , 2017, , .		0