

# Theodoros D Katsaounis

## List of Publications by Year in descending order

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g-index

39  
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39  
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times ranked

371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite volume schemes for dispersive wave propagation and runup. Journal of Computational Physics, 2011, 230, 3035-3061.	3.8	71
2	A modified structured central scheme for 2D hyperbolic conservation laws. Applied Mathematics Letters, 1999, 12, 89-96.	2.7	48
3	Numerical solution of the two-dimensional shallow water equations by the application of relaxation methods. Applied Mathematical Modelling, 2005, 29, 754-783.	4.2	45
4	Relaxation schemes for the shallow water equations. International Journal for Numerical Methods in Fluids, 2003, 41, 695-719.	1.6	40
5	High Frequency limit of the Helmholtz Equations. Revista Matematica Iberoamericana, 2002, 18, 187-209.	0.9	38
6	Performance assessment of bifacial c-Si PV modules through device simulations and outdoor measurements. Renewable Energy, 2019, 143, 1285-1298.	8.9	35
7	Finite volume methods for unidirectional dispersive wave models. International Journal for Numerical Methods in Fluids, 2013, 71, 717-736.	1.6	33
8	Adaptive Finite Element Relaxation Schemes for Hyperbolic Conservation Laws. ESAIM: Mathematical Modelling and Numerical Analysis, 2001, 35, 17-33.	1.9	19
9	Upwinding sources at interfaces in conservation laws. Applied Mathematics Letters, 2004, 17, 309-316.	2.7	14
10	Load capacity and rupture displacement in viscoelastic fiber bundles. Physical Review E, 2007, 75, 046104.	2.1	12
11	A Generalized Relaxation Method for Transport and Diffusion of Pollutant Models in Shallow Water. Computational Methods in Applied Mathematics, 2004, 4, 410-430.	0.8	11
12	A Discontinuous Galerkin Method for the Incompressible Navier-Stokes Equations. Lecture Notes in Computational Science and Engineering, 2000, , 157-166.	0.3	10
13	Finite volume relaxation schemes for multidimensional conservation laws. Mathematics of Computation, 2000, 70, 533-554.	2.1	9
14	Numerical simulation of incompressible fluid flow using locally solenoidal elements. Computers and Mathematics With Applications, 2006, 51, 1551-1570.	2.7	9
15	COMPUTATION OF HIGH FREQUENCY FIELDS NEAR CAUSTICS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 199-228.	3.3	7
16	Effective Equations for Localization and Shear Band Formation. SIAM Journal on Applied Mathematics, 2009, 69, 1618-1643.	1.8	7
17	A posteriori error control and adaptivity for Crank-Nicolson finite element approximations for the linear Schrödinger equation. Numerische Mathematik, 2015, 129, 55-90.	1.9	7
18	ADAPTIVE FINITE ELEMENT COMPUTATIONS OF SHEAR BAND FORMATION. Mathematical Models and Methods in Applied Sciences, 2010, 20, 423-448.	3.3	6

#	ARTICLE	IF	CITATIONS
19	2D simulation and performance evaluation of bifacial rear local contact c-Si solar cells under variable illumination conditions. <i>Solar Energy</i> , 2017, 158, 34-41.	6.1	6
20	On the reflection of solitons of the cubic nonlinear Schrödinger equation. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 1013-1018.	2.3	6
21	Dispersive wave runup on non-uniform shores. <i>Springer Proceedings in Mathematics</i> , 2011, , 389-397.	0.5	6
22	Scaling of the size and temporal occurrence of burst sequences in creep rupture of fiber bundles. <i>European Physical Journal B</i> , 2008, 61, 153-157.	1.5	5
23	A Posteriori Error Analysis for Evolution Nonlinear Schrödinger Equations up to the Critical Exponent. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1405-1434.	2.3	5
24	Second Order Approximation of the Viscous Saint-Venant System and Comparison with Experiments. , 2003, , 633-644.		5
25	First and second order error estimates for the Upwind Source at Interface method. <i>Mathematics of Computation</i> , 2004, 74, 103-123.	2.1	4
26	Localization in inelastic rate dependent shearing deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 98, 106-125.	4.8	4
27	Boussinesq-Peregrine water wave models and their numerical approximation. <i>Journal of Computational Physics</i> , 2020, 417, 109579.	3.8	4
28	A regularized shallow-water waves system with slip-wall boundary conditions in a basin: theory and numerical analysis. <i>Nonlinearity</i> , 2022, 35, 750-786.	1.4	4
29	Emergence of Coherent Localized Structures in Shear Deformations of Temperature Dependent Fluids. <i>Archive for Rational Mechanics and Analysis</i> , 2017, 224, 173-208.	2.4	3
30	Relaxation Models and Finite Element Schemes for the Shallow Water Equations. , 2003, , 621-631.		3
31	Burst avalanches and inter-occurrence times in creep rupture. <i>Europhysics Letters</i> , 2008, 81, 24001.	2.0	2
32	On the Performance of the WRF Numerical Model over Complex Terrain on a High Performance Computing Cluster. , 2014, , .		2
33	Localization in Adiabatic Shear Flow Via Geometric Theory of Singular Perturbations. <i>Journal of Nonlinear Science</i> , 2019, 29, 2055-2101.	2.1	2
34	Regularized semiclassical limits: Linear flows with infinite Lyapunov exponents. <i>Communications in Mathematical Sciences</i> , 2016, 14, 1821-1858.	1.0	2
35	High frequency waves near cusp caustics. <i>Quarterly of Applied Mathematics</i> , 2003, 61, 111-129.	0.7	1
36	Three-points interfacial quadrature for geometrical source terms on nonuniform grids. <i>Calcolo</i> , 2012, 49, 149-176.	1.1	1

#	ARTICLE	IF	CITATIONS
37	Localization and Shear Bands in High Strain-Rate Plasticity. The IMA Volumes in Mathematics and Its Applications, 2011, , 365-377.	0.5	1