

**Fișa de verificare a îndeplinirii standardelor minimale
pentru obținerea atestatului de abilitare**

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PUBLICAȚII

Nr. crt.	Articol, referința bibliografică	Publicat în ultimii 7 ani	s_i	n_i	s_i/n_i	An SRI
1.	Loredana Bălilescu, Carlos Conca, Tuhin Ghosh, Jorge San Martin, Muthusamy Vanninathan. <i>The Dispersion Tensor and Its Unique Minimizer in Hashin-Shtrikman Micro-structures.</i> Archive for Rational Mechanics and Analysis 230 (2018), Issue 2, pp. 665-700, DOI: 10.1007/s00205-018-1255-z, ISSN 0003-9527.	DA	6,040	5	1,208	2017
2.	Loredana Bălilescu, Jorge San Martin, Takeo Takahashi. <i>Fluid-rigid structure interaction system with Coulomb's law.</i> SIAM Journal on Mathematical Analysis 49 (2017), Issue 6, pp. 4625-4657, ISSN 0036-1410.	DA	2,567	3	0,856	2017
3.	Loredana Bălilescu, Jorge San Martin, Takeo Takahashi. <i>On the Navier-Stokes equation with Coulomb friction law boundary condition.</i> Zeitschrift für Angewandte Mathematik und Physik 68:3 (2017), ISSN 0044-2275.	DA	1,317	3	0,439	2017
4.	Jorge San Martin, Jean Francois Scheid, Loredana Smaranda (Bălilescu). <i>A modified Lagrange-Galerkin method for a fluid-rigid system with discontinuous density.</i> Numerische Mathematik 122, No. 2 (2012), pp. 341-382, ISSN 0029-599X.	DA	2,494	3	0,831	2017
5.	Carlos Conca, Jorge San Martin, Loredana Smaranda (Bălilescu), Muthusamy Vanninathan. <i>Burnett coefficients and laminates.</i> Applicable Analysis 91, Issue 6 (2011), pp. 1155-1176, ISSN 0003-6811.	NU	0,848	4	0,212	2015
6.	Jorge San Martin, Jean Francois Scheid, Loredana Smaranda (Bălilescu). <i>A time discretization scheme of a characteristics method for a fluid-rigid system with discontinuous density.</i> Comptes Rendus de l'Académie de Sciences de Paris, Série Mathématique 348, No. 15-16 (2010), pp. 935-939, ISSN 1631-073X.	NU	0,917	3	0,306	2015

7.	Jorge San Martin, Loredana Smaranda (Bălilescu). <i>Asymptotics for eigenvalues of the Laplacian in higher dimensional periodically perforated domains.</i> Zeitschrift für angewandte Mathematik und Physik 61, No. 3 (2010), pp. 401-424, ISSN 0044-2275.	NU	1,317	2	0,659	2017
8.	Carlos Conca, Jorge San Martin, Loredana Smaranda (Bălilescu), Muthusamy Vanninathan. <i>Optimal bounds on Burnett coefficients in one dimensional periodic media.</i> Mathematical Models and Methods in Applied Sciences 19, No. 9 (2009), pp. 1743-1764, ISSN 0218-2025	NU	2,872	4	0,718	2017
9.	Delphine Dupuy, Rafael Orive, Loredana Smaranda (Bălilescu). <i>Bloch waves homogenization of a Dirichlet problem in a periodically perforated domain.</i> Asymptotic Analysis 61, No. 3-4 (2009), pp. 229-250, ISSN 0921-7134	NU	1,148	3	0,383	2017
10.	Jorge San Martin, Loredana Smaranda (Bălilescu), Takeo Takahashi. <i>Convergence of a finite element/ALE method for the Stokes equations in a domain depending on time.</i> Journal of Computational and Applied Mathematics 230, Issue 2 (2009), pp. 521-545, ISSN 0377-0427.	NU	1,016	3	0,339	2017
11.	Carlos Conca, Jorge San Martin, Loredana Smaranda (Bălilescu), Muthusamy Vanninathan. <i>On Burnett coefficients in periodic media in low contrast regime.</i> Journal of Mathematical Physics 49 (2008), pp. 053514(23), ISSN 0022-248.	NU	0,998	3	0,250	2016
12.	Jaime Ortega, Jorge San Martin, Loredana Smaranda (Bălilescu). <i>On the homogenization of a non-homogeneous Neumann problem via Bloch wave method.</i> Zeitschrift für angewandte Mathematik und Physik 58, No. 6 (2007), pp. 969–993, ISSN 0044-2275.	NU	1,317	3	0,439	2017
13.	Jaime Ortega, Jorge San Martin, Loredana Smaranda (Bălilescu). <i>Bloch wave homogenization in a medium perforated by critical holes.</i> Comptes Rendus Mécanique Acad. Sci. Paris 335, No. 2 (2007), pp. 75–80, ISSN 1631-0721.	NU	1,143	3	0,381	2017
TOTAL: S = 7,019 S_{recent} = 3,334						

CITĂRI:

Nr. crt.	Articol citat, Referința bibliografică	Revista și articolul în care a fost citat	s_i	An SRI
1.	Carlos Conca, Jorge San Martin, Loredana Smaranda, Muthusamy Vanninathan, <i>On Burnett coefficients in periodic media in low contrast regime</i> , Journal of Mathematical Physics 49 (2008), pp. 053514(23), ISSN 0022-248.	Giovanni Scilla, <i>Motion of discrete interfaces in low contrast periodic media</i> , Networks and Heterogeneous Media , Volume 9, Issue 1, Pages 169-189, 2014, ISSN 1556-1801.	1,416	2017
2.		Marc Briane, Muthusamy Vanninathan, <i>First Bloch eigenvalue in high contrast media</i> , Journal of Mathematical Physics , Volume 55 Issue 1, Article Number 011501, 2014, ISSN 0022-2488.	0,883	2017
3.	Jorge San Martin, Loredana Smaranda, Takeo Takahashi, <i>Convergence of a finite element/ALE method for the Stokes equations in a domain depending on time</i> , Journal of Computational and Applied Mathematics 230, Issue 2 (2009), pp. 521-545, ISSN 0377-0427.	Lozovskiy, Alexander; Olshanskii, Maxim A., Vassilevski, Yuri V., <i>A quasi Lagrangian finite element method for the Navier-Stokes equations in a time dependent domain</i> , Comput. Methods Appl. Mech. Engrg. 333, pp. 55–73 (2018), ISSN 0045-7825.	4,590	2017
4.		Danilov, A., Lozovskiy, A., Olshanskii, M., Vassilevski, Y., <i>A finite element method for the Navier-Stokes equations in moving domain with application to hemodynamics of the left ventricle</i> , Russian Journal of Numerical Analysis and Mathematical Modelling 32(4), pp. 225-236 (2017), ISSN 0927-6467.	0,602	2017
5.		Lee, H., Xu, S., <i>Finite element error estimation for quasi-Newtonian fluid-structure interaction problems</i> , Applied Mathematics and Computation 274, pp. 93-105 (2016), ISSN 0096-3003.	0,801	2017
6.		Sebastien Court, Michel Fournie, <i>A fictitious domain finite element method for simulations of fluid-structure interactions: The Navier-Stokes equations coupled with a moving solid</i> , Journal of fluids and structures , Volume 55, Pages 398-408 (2015), ISSN 0889-9746.	2,089	2017
7.		Sebastien Court, Michel Fournie, Alexei Lozinski, <i>A fictitious domain approach for the Stokes problem based on the extended finite element method</i> , International Journal for Numerical Methods in Fluids , Volume 74,	1,616	2017

		Issue 2, Pages 73-99 (2014), ISSN 0271-2091.		
8.		Howell, J., Lee, H., Xu, S., <i>Finite element approximation of viscoelastic flow in a moving domain</i> , Electronic Transactions on Numerical Analysis 41, pp. 306-327 (2014), ISSN 1068-9613.	1,180	2017
9.		Lee, H, <i>Numerical approximation of Quasi-Newtonian flows by ALE-FEM</i> , Numerical Methods for Partial Differential Equations , 28(5), pp. 1667-1695 (2012), ISSN 0749-159X.	0,953	2017
10.		Legendre, G., Takahashi, T., <i>Convergence of a Lagrange-Galerkin method for a fluid-rigid body system in ALE formulation</i> , Mathematical Modelling and Numerical Analysis , Volume 42, Issue 4, July 2008, Pages 609-644, ISSN 0764-583X. Obs: S-a citat pre-publicația care se găsește la https://hal.archives-ouvertes.fr/hal-00275223 , deoarece articolul a apărut ulterior în Journal of Computational and Applied Mathematics 230 (2), pp.521-545, 2009.	2,000	2017
11.	Carlos Conca, Jorge San Martin, Loredana Smaranda, Muthusamy Vanninathan, <i>Optimal bounds on Burnett coefficients in one dimensional periodic media</i> , Mathematical Models and Methods in Applied Sciences 19, No. 9 (2009), pp. 1743-1764, ISSN 0218-2025.	Marc Briane, Muthusamy Vanninathan, <i>First Bloch eigenvalue in high contrast media</i> , Journal of Mathematical Physics , Volume 55, Issue 1, Article Number 011501, 2014, ISSN 0022-2488.	0,883	2017
12.	Carlos Conca, Jorge San Martin, Loredana Smaranda, Muthusamy Vanninathan, <i>Burnett coefficients and laminates</i> , Applicable Analysis 91, Issue 6 (2011), pp. 1155-1176, ISSN 0003-6811.	L. Koralov, S. Molchanov, B. Vainberg, <i>On mathematical foundation of the Brownian motor theory</i> , Journal of Functional Analysis , Volume 267, Issue 6, Pages 1725-1750, 2014, ISSN 0022-1236.	2,524	2017
13.	Jorge San Martin, Jean Francois Scheid, Loredana Smaranda, <i>A modified</i>	Morales, F.A., <i>Homogenization of geological fissured systems with curved non-periodic cracks</i> , Electronic Journal of Differential		

	<i>Lagrange-Galerkin method for a fluid-rigid system with discontinuous density,</i> Numerische Mathematik 122, No. 2 (2012), pp. 341-382, ISSN 0029-599X.	Equations , Volume 2014, 11 September 2014, 21p, ISSN 1072-6691.	0,516	2017
TOTAL: C=13				

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Data

26.10.2018