Fișa de verificare a îndeplinirii standardelor minimale

pentru obținerea atestatului de abilitare

LOREDANA BĂLILESCU

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PUBLICAȚII

Nr. crt.	Articol, referinţa 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. *The Dispersion Tensor and Its Unique Minimizer in Hashin- Shtrikman Micro-structures*. **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. *Fluid–rigid structure interaction system with Coulomb's law.* **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. *On the Navier–Stokes equation with Coulomb friction law boundary condition.* **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. *A modified Lagrange-Galerkin method for a fluid-rigid system with discontinuous density*. **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, Muthusamy Vanninathan. *Burnett coefficients and laminates.* **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. *A time discretization scheme of a characteristics method for a fluid-rigid system with discontinuous density.* **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. *Asymptotics for eigenvalues of the Laplacian in higher dimensional periodically perforated domains.* **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, Muthusamy Vanninathan. *Optimal bounds on Burnett coefficients in one dimensional periodic media.* **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. *Bloch waves homogenization of a Dirichlet problem in a periodically perforated domain.* **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, Takeo Takahashi. *Convergence of a finite element/ALE method for the Stokes equations in a domain depending on time*. **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, Muthusamy Vanninathan. *On Burnett coefficients in periodic media in low contrast regime*. **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. *On the homogenization of a non-homogeneous Neumann problem via Bloch wave method.* **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. *Bloch wave homogenization in a medium perforated by critical holes.* **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, Referinţa bibliografică	Revista şi articolul în care a fost citat	s_i	An SRI
1.	Carlos Conca, Jorge San Martin, Loredana Smaranda, Muthusamy Vanninathan, *On Burnett coefficients in periodic media in low contrast regime*, **Journal of Mathematical Physics** 49 (2008), pp. 053514(23), ISSN 0022-248**.**	G. Allaire and T. Yamada, *Optimization of dispersive coefficients in the homogenization of the wave equation in periodic structures*, **Numerische Mathematik**, Volume 140, Issue 2, Pages 265-326, 2018, ISSN 0029-599X.	2,494	2017
2.		Giovanni Scilla, *Motion of discrete interfaces in low contrast periodic media*, **Networks and Heterogeneous Media,** Volume 9, Issue 1, Pages 169-189, 2014, ISSN 1556-1801.	1,416	2017
3.		Marc Briane, Muthusamy Vanninathan, *First Bloch eigenvalue in high contrast media*, **Journal of Mathematical Physics**, Volume 55 Issue 1, Article Number 011501, 2014, ISSN 0022-2488.	0,883	2017
4.	Jorge San Martin, Loredana Smaranda, Takeo Takahashi, *Convergence of a finite element/ALE method for the Stokes equations in a domain depending on time*, **Journal of Computational and Applied Mathematics** 230, Issue 2 (2009), pp. 521-545, ISSN 0377-0427.	Lozovskiy, Alexander; Olshanskii, Maxim A., Vassilevski, Yuri V., *A quasi Lagrangian finite element method for the Navier-Stokes equations in a time dependent domain*, **Comput. Methods Appl. Mech. Engrg.** 333, pp. 55–73 (2018), ISSN 0045-7825.	4,590	2017
5.		Danilov, A., Lozovskiy, A., Olshanskii, M., Vassilevski, Y., *A finite element method for the Navier-Stokes equations in moving domain with application to hemodynamics of the left ventricle*, **Russian Journal of Numerical Analysis and Mathematical Modelling** 32(4), pp. 225-236 (2017), ISSN 0927-6467.	0,602	2017
6.		Lee, H., Xu, S., *Finite element error estimation for quasi-Newtonian fluid-structure interaction problems*, **Applied Mathematics and Computation** 274, pp. 93-105 (2016), ISSN 0096-3003.	0,801	2017
7.		Sebastien Court, Michel Fournie, *A fictitious domain finite element method for simulations of fluid-structure interactions: The Navier-Stokes equations coupled with a moving solid*, **Journal of fluids and structures**, Volume 55, Pages 398-408 (2015), ISSN 0889-9746.	2,089	2017

8.		Sebastien Court, Michel Fournie, Alexei Lozinski, *A fictitious domain approach for the Stokes problem based on the extended finite element method*, **International Journal for Numerical Methods in Fluids**, Volume 74, Issue 2, Pages 73-99 (2014), ISSN 0271-2091.	1,616	2017
9.		Howell, J., Lee, H., Xu, S., *Finite element approximation of viscoelastic flow in a moving domain*, **Electronic Transactions on Numerical Analysis** 41, pp. 306-327 (2014), ISSN 1068-9613.	1,180	2017
10.		Lee, H, *Numerical approximation of Quasi-Newtonian flows by ALE-FEM*, **Numerical Methods for Partial Differential Equations**, 28(5), pp. 1667-1695 (2012), ISSN 0749-159X.	0,953	2017
11.		Legendre, G., Takahashi, T., *Convergence of a Lagrange-Galerkin method for a fluid-rigid body system in ALE formulation*, **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 găseste 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
12.	Carlos Conca, Jorge San Martin, Loredana Smaranda, Muthusamy Vanninathan, *Optimal bounds on Burnett coefficients in one dimensional periodic media*, **Mathematical Models and Methods in Applied Sciences** 19, No. 9 (2009), pp. 1743-1764, ISSN 0218-2025.	G. Allaire and T. Yamada, *Optimization of dispersive coefficients in the homogenization of the wave equation in periodic structures*, **Numerische Mathematik**, Volume 140, Issue 2, Pages 265-326, 2018, ISSN 0029-599X.	2,494	2017
13.		Marc Briane, Muthusamy Vanninathan, *First Bloch eigenvalue in high contrast media*, **Journal of Mathematical Physics**, Volume 55, Issue 1, Article Number 011501, 2014, ISSN 0022-2488.	0,883	2017
14.	Carlos Conca, Jorge San Martin, Loredana Smaranda, Muthusamy Vanninathan, *Burnett coefficients and laminates*, **Applicable**	G. Allaire and T. Yamada, *Optimization of dispersive coefficients in the homogenization of the wave equation in periodic structures*, **Numerische Mathematik**, Volume 140, Issue 2, Pages 265-326, 2018, ISSN 0029-599X.	2,494	2017

15.	**Analysis** 91, Issue 6 (2011), pp. 1155-1176, ISSN 0003-6811.	L. Koralov, S. Molchanov, B. Vainberg, *On mathematical foundation of the Brownian motor theory*, **Journal of Functional Analysis**, Volume 267, Issue 6, Pages 1725-1750, 2014, ISSN 0022-1236.	2,524	2017
16.	Jorge San Martin, Jean Francois Scheid, Loredana Smaranda, *A modified Lagrange-Galerkin method for a fluid-rigid system with discontinuous density*, **Numerische Mathematik** 122, No. 2 (2012), pp. 341-382, ISSN 0029-599X.	Morales, F.A., *Homogenization of geological fissured systems with curved non–periodic cracks*, **Electronic Journal of Differential Equations**, Volume 2014, 11 September 2014, 21p, ISSN 1072-6691.	0,516	2017
TOTAL: C=16				

Mihaela Loredana Bălilescu

Data

26.10.2018