

UNIVERSITATEA “ALEXANDRU IOAN CUZA”, IAȘI
FACULTATEA DE MATEMATICĂ
DEPARTAMENTUL DE MATEMATICĂ

Concurs pentru ocuparea postului de Profesor universitar, poz. 12

Disciplinele postului: Calcul științific (Op); Soft matematic. Practică; Mecanică analitică și a mediilor continue

FIȘA DE AUTOEVALUARE
a îndeplinirii standardelor minimale ale universității (domeniul Matematică)
pentru postul de Profesor universitar poziția 12, publicat Monitorul Oficial Anul 191 nr. 438 din 29.11.2023

Candidat: **Ionel-Dumitrel GHIBA**

Data nașterii: 27.12.1982

Funcția actuală: conferentiar universitar dr.

Data numirii în funcția actuală: 16.02.2021

Instituția: Universitatea Alexandru Ioan Cuza din Iași

Total puncte obținute: $C=41,39$, $C_{recent}=11,839$, $C_u=4,575$ (pentru ultimii 3 ani) *Citări în reviste cu $SRI \geq 0.5$: 786*

Puncte necesare: $C_{recent} \geq 1$, $C_u \geq 0.5$, minim 6 citări în reviste cu $SRI \geq 0.5$

Lucrări științifice:

	Articol, referința bibliografică	Publicat în ultimii 7 ani	Publicat în ultimii 3 ani	s_i	n_i	s_i / n_i
1.	M.M. Saem, I.D. Ghiba, P. Neff, P, A Geometrically Nonlinear Cosserat (Micropolar) Curvy Shell Model Via Gamma Convergence, Journal of Nonlinear Science, 33 (5): Article Number 70, 2023.	x	x	3,071	3	
2.	I.D. Ghiba, P. Neff, Linear constrained Cosserat-shell models including terms up to $O(h^5)$: conditional and unconditional existence and uniqueness, Zeitschrift für Angewandte Mathematik und Physik, 74: Article Number 4, 2023.	x	x	1,324	2	
3.	I.D. Ghiba, G. Rizzi, A. Madeo, P. Neff, Cosserat Micropolar Elasticity: Classical Eringen vs. Dislocation Form, Journal of Mechanics of Materials and Structures, 18 (1): 93-123, 2023.	x	x	0,447	4	

4.	J. Voss, R.J. Martin, I.D. Ghiba, P. Neff, Morrey's Conjecture for the Planar Volumetric-Isochoric Split: Least Rank-One Convex Energy Functions, Journal of Nonlinear Science 32 (5), Article Number 76, DOI10.1007/s00332-022-09827-4, 2022.	x	x	2,753	4	
5.	J. Voss, I.D. Ghiba, R.J. Martin, P. Neff. A rank-one convex, non-polyconvex isotropic function on $GL^+(2)$ with compact connected sublevel sets, in print Proceedings A of the Royal Society of Edinburgh, 152: 356-38, 2022.	x	x	1,145	4	
6.	H. Khan, I.-D. Ghiba, A. Madeo, P. Neff. Existence and uniqueness of Rayleigh waves in isotropic elastic Cosserat materials and algorithmic aspects, Wave Motion, 110: 102898, 2022..	x	x	1,015	4	
7.	G. Rizzi, G. Hutter, H. Khan, I.D. Ghiba, A. Madeo, P. Neff, Analytical solution of the cylindrical torsion problem for the relaxed micromorphic continuum and other generalized continua (including full derivations), Mathematics and Mechanics of Solids, 27: 507-553, 2022.	x	x	1,210	6	
8.	I.D. Ghiba, M. Birsan, P. Lewintan, P. Neff, A Constrained Cosserat Shell Model up to Order $O(h^5)$: Modelling, Existence of Minimizers, Relations to Classical Shell Models and Scaling Invariance of the Bending Tensor, Journal of Elasticity, 146: 83–141, 2021.	x	x	1,598	4	
9.	I.D. Ghiba, P. Neff, S. Owczarek. A note on local higher regularity in the dynamic linear relaxed micromorphic model, Math. Meth. Appl. Sci., 44:13855-13865, 2021.	x	x	0,823	3	
10.	J. Voss, I.D. Ghiba, R.J. Martin, P. Neff. Sharp rank-one convexity conditions in planar isotropic elasticity for the additive volumetric-isochoric split, Journal of Elasticity, 143: 301-335, 2021.	x	x	1,598	4	
11.	I.D. Ghiba, P. Neff and S. Owczarek. Existence results for non-homogeneous boundary conditions in the relaxed micromorphic model, Math. Meth. Appl. Sci., 44: 2040-2049, 2021.	x	x	0,823	3	
12.	I.D. Ghiba, M. Birsan, P. Lewintan, P. Neff. The isotropic Cosserat shell model including terms up to $O(h^5)$. Part II: Existence of minimizers, Journal of Elasticity, 142: 263–290, 2020.	x		2,192	4	
13.	I.D. Ghiba, M. Birsan, P. Lewintan, P. Neff. The isotropic Cosserat shell model including terms up to $O(h^5)$. Part I: Derivation in matrix notation, Journal of	x		2,192	4	

	Elasticity, 142: 201–262, 2020.					
14.	R.J. Martin, J. Voss, I.D. Ghiba, O. Sander, P. Neff, The quasiconvex envelope of conformally invariant planar energy functions in isotropic hyperelasticity, Journal of Nonlinear Science, 30: 2885–2923, 2020.	x		3,214	5	
15.	M.V. d'Agostino, G. Barbagallo, I.D. Ghiba, B. Eidel, P. Neff, A. Madeo, Effective description of anisotropic wave dispersion in mechanical band-gap metamaterials via the relaxed micromorphic model, Journal of Elasticity, 139: 299–329, 2020.	x		2,192	6	
16.	R.J. Martin, J. Voss, I.D. Ghiba, P. Neff, Quasiconvex relaxation of isotropic functions in incompressible planar hyperelasticity, Proceedings of the Royal Society of Edinburgh, Section: A Mathematics, 150: 2620 – 2631, 2020. (SRI 2016: 1.616)	x		1,796	4	
17.	M. Birsan, I.D. Ghiba, R.J. Martin, P. Neff, Refined dimensional reduction for isotropic elastic Cosserat shells with initial curvature, Mathematics and Mechanics of Solids, 24: 4000-4019, 2019.	x		1,210	4	
18.	S. Owczarek, I.D. Ghiba, M.V. d'Agostino, P. Neff, Nonstandard micro-inertia terms in the relaxed micromorphic model: well-posedness for dynamics, Mathematics and Mechanics of Solids, 24: 3200-3215, 2019.	x		1,210	4	
19.	R.J. Martin, I.D. Ghiba, P. Neff, A polyconvex extension of the logarithmic Hencky strain energy, Analysis and Applications, 17: 349-361, 2019.	x		1,426	3	
20.	I.D. Ghiba, R.J. Martin, P. Neff. Rank-one convexity implies polyconvexity in isotropic planar incompressible elasticity, Journal de Mathematiques Pures et Appliques, 116, 88-104, 2018.	x		3,767	3	
21.	R.J. Martin, I.D. Ghiba, P. Neff, A non-ellipticity result, or the impossible taming of the logarithmic strain measure, International Journal of Non-Linear Mechanics, 102, 147-158, 2018.	x		1,257	3	
22.	R.J. Martin, I.D. Ghiba, P. Neff. Rank-one convexity implies polyconvexity for isotropic, objective and isochoric elastic energies in the two-dimensional case, Proceedings of the Royal Society of Edinburgh, Section: A Mathematics 147 (3), pp.	x		1,796	3	

	571-597, 2017.					
23.	G. Barbagallo, M.V. D'Agostino, R. Abreu, I.D. Ghiba, A. Madeo, P. Neff. Transparent anisotropy for the relaxed micromorphic model: macroscopic consistency conditions and long wave length asymptotics, International Journal of Solids and Structures, 120, pp. 7-30, 2017.	x		1,704	6	
24.	I.D. Ghiba, P. Neff, A. Madeo, I. Münch. A variant of the linear isotropic indeterminate couple stress model with symmetric local force-stress, symmetric nonlocal force-stress, symmetric couple-stresses and complete traction boundary conditions, Mathematics and Mechanics of Solids 22, pp. 1221-1266, 2017.	x		1,210	4	
25.	I. Münch, P. Neff, A. Madeo, I.D. Ghiba. The modified indeterminate couple stress model: Why Yang et al.'s arguments motivating a symmetric couple stress tensor contain a gap and why the couple stress tensor may be chosen symmetric nevertheless, ZAMM, 97, pp. 1524-1554, 2017.	x		0,959	4	
26.	M. V. d'Agostino, G. Barbagallo, I.D. Ghiba, A. Madeo, P. Neff. A panorama of dispersion curves for the weighted isotropic relaxed micromorphic model, ZAMM, 97, pp. 1436-1481, 2017.	x		0,959	5	
27.	P. Neff, A. Madeo, G. Barbagallo, M.V. D'Agostino, R. Abreu, I.D. Ghiba. Real wave propagation in the isotropic-relaxed micromorphic model, Proceedings of the Royal Society A 473, doi: 10.1098/rspa.2016.0790, 2017.	x		2,036	6	
28.	A. Madeo, P. Neff, I.D. Ghiba, G. Rosi. Reflection and transmission of elastic waves at interfaces embedded in non-local band-gap metamaterials: a comprehensive study via the relaxed micromorphic model, Journal of the Mechanics and Physics of Solids, 95, pp. 441-479, 2016.			3,704	4	

29.	A. Madeo, I.D. Ghiba, P. Neff, I. Münch. A new view on boundary conditions in the Grioli-Koiter-Mindlin-Toupin indeterminate couple stress model, <i>European Journal of Mechanics A/Solids</i> , 59, pp. 294-322, 2016.			1,608	4	
30.	P. Neff, I. Münch, I.D. Ghiba, A. Madeo. On some fundamental misunderstandings in the indeterminate couple stress model. A comment on recent papers of A.R. Hadjesfandiari and G.F. Dargush, <i>International Journal of Solids and Structures</i> 81, pp. 233-243, 2016.			1,704	4	
31.	P. Neff, I.D. Ghiba. Loss of ellipticity in additive logarithmic finite strain plasticity, <i>International Journal of Non-Linear Mechanics</i> , 81, pp. 122-128, 2016.			1,257	2	
32.	P. Neff, I.D. Ghiba. The exponentiated Hencky-logarithmic strain energy. Part III: Coupling with idealized isotropic finite strain plasticity, <i>Continuum Mechanics and Thermodynamics</i> , 28, pp. 477-487, 2016.			1,507	2	
33.	I.D. Ghiba, P. Neff, R.J. Martin. An ellipticity domain for the distortional Hencky-logarithmic strain energy, <i>Proceedings of the Royal Society A</i> 471, doi: 10.1098/rspa.2015.0510, 2016.			2,036	3	
34.	I.D. Ghiba, P. Neff, M. Silhavy. The exponentiated Hencky-logarithmic strain energy. Improvement of the proof of planar polyconvexity, <i>International Journal of Non-Linear Mechanics</i> , 71, pp. 48-51, 2015.			1,257	3	
35.	P. Neff, J. Lankeit, I.D. Ghiba, R. Martin, D. Steigmann. The exponentiated Hencky-logarithmic strain energy. Part II: Coercivity, planar polyconvexity and existence of minimizers, <i>ZAMP</i> , 66, pp. 1671-1693, 2015.			1,246	5	
36.	P. Neff, I.D. Ghiba, J. Lankeit. The exponentiated Hencky-logarithmic strain energy. Part I: Constitutive issues and rank-one convexity, <i>Journal of Elasticity</i> , 121, pp. 143-234, 2015.			2,192	3	

37.	A. Madeo, P. Neff, I.D. Ghiba, L. Placidi, G. Rosi. Band gaps in the relaxed linear micromorphic continuum, ZAMM, 95, pp. 880-887, 2015.			0,959	5	
38.	I.D. Ghiba, P. Neff, A. Madeo, L. Placidi, G. Rosi. The relaxed linear micromorphic continuum: existence, uniqueness and continuous dependence in dynamics, Mathematics and Mechanics of Solids, 68, pp. 53-84, 2015.			1,210	5	
39.	A. Madeo, P. Neff, I.D. Ghiba, L. Placidi, G. Rosi. Wave propagation in relaxed micromorphic continua: modelling metamaterials with frequency band-gaps, Continuum Mechanics and Thermodynamics, 27, pp. 551-570, 2015.			1,507	5	
40.	P. Neff, I.D. Ghiba, M. Lazar, A. Madeo. The relaxed linear micromorphic continuum: well-posedness of the static problem and relations to the gauge theory of dislocations, Quarterly Journal of Mechanics and Applied Mathematics, 68 (1), pp. 53-84, 2015.			0,661	4	
41.	I.D. Ghiba, E. Bulgariu. On spatial evolution of the solution of a non-standard problem in the bending theory of elastic plates, IMA Journal of Applied Mathematics, 80 (2), pp. 452-473, 2015.			0,871	2	
42.	P. Neff, I.D. Ghiba, A. Madeo, L. Placidi, G. Rosi. A unifying perspective: the relaxed linear micromorphic continuum, Continuum Mechanics and Thermodynamics, 26, pp. 639-681, 2014.			1,507	5	
43.	E. Bulgariu, I.D. Ghiba. On the thermal stresses in anisotropic porous cylinders, Discrete and Continuous Dynamical Systems - Series S, 6, December, pp. 1539-1550, 2013.			0,626	2	
44.	I.D. Ghiba. On the spatial behaviour in bending theory of porous thermoelastic plates. Journal of Mathematical Analysis and Applications, 403, pp. 129-142, 2013. (SRI 2016: 1.125)			1,103	1	

45.	I.D. Ghiba, C. Galeş. Some qualitative results in the linear theory of micropolar solid-solid mixtures, Journal of Thermal Stresses, 36, pp. 426-445, 2013.			1,219	2	
46.	I.D. Ghiba. On the temporal behaviour in the bending theory of porous thermoelastic plates, ZAMM, 93, pp. 284-296, 2013.			0,959	1	
47.	I.D. Ghiba, C. Galeş. On the fundamental solutions for micropolar fluid-fluid mixtures under steady state vibrations, Applied Mathematics and Computation, 219, pp. 2749-2759, 2012.			0,978	2	
48.	S. Chiriță, I.D. Ghiba. Rayleigh waves in Cosserat elastic materials, International Journal of Engineering Science, 51, pp. 117-127, 2012.			3,592	2	
49.	C. Galeş, I.D. Ghiba, I. Ignătescu. Asymptotic partition of energy in micromorphic thermopiezoelectricity, Journal of Thermal Stresses, 34, pp. 1241-1249, 2011. (SRI 2016: 1.000)			1,219	3	
50.	I.D. Ghiba. On the steady vibrations problem in linear theory of micropolar solid-fluid mixture, European Journal of Mechanics A/Solids, 30, pp. 584-593, 2011.			1,608	1	
51.	I.D. Ghiba. On the thermal theory of micropolar solid-fluid mixture, Journal of Thermal Stresses, 34, pp. 1-17, 2011.			1,219	1	
52.	C. Galeş, I.D. Ghiba. On uniqueness and continuous dependence of solutions in viscoelastic mixtures, Meccanica, 45, pp. 901-909, 2011.			1,024	2	
53.	I.D. Ghiba. Representation theorems and fundamental solutions for micropolar solid-fluid mixtures under steady state vibrations, European Journal of Mechanics A/Solids, 29, pp. 1034-1041, 2010.			1,608	1	
54.	S. Chiriță, I.D. Ghiba. Inhomogeneous plane waves in elastic materials with voids, Wave Motion, 47, pp. 333-342, 2010.			1,489	2	

55.	S. Chiriță, I.D. Ghiba. Strong ellipticity and progressive waves in elastic materials with voids, Proceedings of the Royal Society A, 466, pp. 439-458, 2010.			2,036	2	
56.	I.D. Ghiba. On the deformation of transversely isotropic porous elastic circular cylinder, Archive of Mechanics, 61, pp. 407-421, 2009.			1,131	1	
57.	I.D. Ghiba. Some uniqueness and stability results in the theory of micropolar solid-fluid mixture, Journal of Mathematical Analysis and Applications, 335, pp. 385-396, 2009.			1,103	1	
58.	S. Chiriță, C. Galeș, I.D. Ghiba. On spatial behavior of the harmonic vibrations in Kelvin-Voigt materials, Journal of Elasticity, 93, pp. 81-92, 2008.			2,192	3	
59.	I.D. Ghiba. Spatial estimates concerning the harmonic vibrations in rectangular plates with voids, Archives of Mechanics, 60, pp. 263-279, 2008.			1,131	1	
60.	I.D. Ghiba. Asymptotic partition of energy in micropolar mixture theory of porous media, Meccanica, 43, pp. 639-649, 2008.			1,024	1	
61.	I.D. Ghiba. Semi-inverse solution for Saint-Venant's problem in the theory of porous elastic materials, European Journal of Mechanics - A/Solids, 27, pp. 1060-1074, 2008.			1,608	1	
62.	I.D. Ghiba. Some uniqueness and continuous dependence results in the micropolar mixture theory of porous media, International Journal of Engineering Science, 44, pp. 1269-1279, 2006.			3,592	1	
	TOTAL:	$C=41,39$ $C_{recent}=11,839$ $C_u=4,575$				

Notă:

s_i reprezintă scorul relativ de influență al revistei științifice în care a fost publicat articolul i , și este dat preluat de pe site-ul <https://uefiscdi.gov.ro/scientometrie-baze-de-date>;

n_i reprezintă numărul de autori ai articolului i ;

$$C = \sum_{i \in M} \frac{s_i}{n_i}, C_{recent} = \sum_{i \in M_{recent}} \frac{s_i}{n_i}, C_{up} = \sum_{i \in M_{up}} \frac{s_i}{n_i}, \text{ unde } M \text{ este mulțimea articolelor științifice care prezintă contribuții originale, în extenso,}$$

publicate de candidat, ca autor sau coautor, în reviste ISI care au un scor relativ de influență mai mare sau egal cu 0.5,

M_{recent} este mulțimea articolelor științifice care prezintă contribuții originale, în extenso, publicate de candidat, ca autor sau coautor, în ultimii 7 ani calendaristici anteriori depunerii dosarului pentru evaluare (incluzând anul înscrierii la concurs), în reviste care au un scor relativ de influență mai mare sau egal cu 0.5 iar M_{up} este mulțimea articolelor științifice care prezintă contribuții originale, în extenso, publicate de candidat, ca autor sau coautor, în ultimii 3 ani calendaristici anteriori depunerii dosarului pentru evaluare (incluzând anul înscrierii la concurs) (sau de la ultima promovare în cazul în care candidatul este din afara universității), în reviste care au un scor relativ de influență mai mare sau egal cu 0.5.

Citări:

Nr.crt	Articol citat (cu referință bibliografică: autori, titlu, revista, număr, an, pagini)	Articolul în care a fost citat (cu referință bibliografică: autori, titlu, revista, număr, an, pagini)	S _i (pentru articolul în care a fost citat)
1.	A se vedea lista de citati de mai jos		
TOTAL nr. citări:		C =786	

Citări în reviste cu $SRI \geq 0.5$

Listă selectivă de citări relevantă pentru specificul tematicii alese și suficientă pentru demonstrarea îndeplinirii criteriilor minime

R.J. Martin, I.D. Ghiba, P. Neff, A non-ellipticity result, or the impossible taming of the logarithmic strain measure, *International Journal of Non-Linear Mechanics*, 102, 147-158, 2018.

Citată în:

- 1) AF Bernard, CA George, D Ahzi, S Remond, Y A generalized mechanical model using stress-strain duality at large strain for amorphous polymers ***MATHEMATICS AND MECHANICS OF SOLIDS*** PY 2021 VL 26 IS 3 BP 386 EP 400 DI 10.1177/1081286520958469UT WOS:000625448000005 (**SRI 2019: 1.063**)
- 2) A.F. Prasad, DKannan, K An analysis driven construction of distortional-mode-dependent and Hill-Stable elastic potential with application to human brain tissue ***JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS*** PY 2020 VL 134 AR 103752 DI 10.1016/j.jmps.2019.103752 (**SRI 2019: 3.517**)

R.J. Martin, I.D. Ghiba, P. Neff. Rank-one convexity implies polyconvexity for isotropic, objective and isochoric elastic energies in the two-dimensional case, *Proceedings of the Royal Society of Edinburgh, Section: A Mathematics* 147 (3), pp. 571-597, 2017.

Citată în:

- 3) Guerra, A, Kristensen, J, Automatic Quasiconvexity of Homogeneous Isotropic Rank-One Convex, Integrands, ***ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS***, PD JUL, PY 2022, VL 245, IS 1, BP 479, EP 500, DI 10.1007/s00205-022-01792-2 (**SRI 2022: 5,020**)
- 4) Boussaid, O Kreisbeck, C Schlomerkemper, Characterizations of symmetric polyconvexity, ***ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS*** PY 2019VL 234 IS 1BP 417 EP 451 DI 10.1007/s00205-019-01395-4 (**SRI 2019: 5.014**)
- 5) Two-by-two upper triangular matrices and Morrey's conjecture By: Harris, Terence L. J.; Kirchheim, Bernd; Lin, Chun-Chi ***CALCULUS OF VARIATIONS AND PARTIAL DIFFERENTIAL EQUATIONS*** Volume: 57 Issue: 3 Article Number: 73 Published: JUN 2018 (**SRI 2019: 2.996**)

- 6) Weak Lower Semicontinuity of Integral Functionals and Applications By: Benesova, Barbora; Kruzik, Martin **SIAM REVIEW** Volume: 59 Issue: 4 Pages: 703-766 Published: DEC 2017 **(SRI 2019: 9.478)**

M. Birsan, I.D. Ghiba, R.J. Martin, P. Neff, Refined dimensional reduction for isotropic elastic Cosserat shells with initial curvature, *Mathematics and Mechanics of Solids*, 24: 4000-4019, 2019.

Citată în:

- 7) Ghosh, Ak et al. Exploring Plasmonic Resonances Toward "Large-Scale" Flexible Optical Sensors with Deformation Stability
ADVANCED FUNCTIONAL MATERIALS PY 2021VL 31IS 30AR 2101959 DI 10.1002/adfm.202101959 **(SRI 2022: 9,447)**

P. Neff, I.D. Ghiba. Comparison of isotropic elasto-plastic models for the plastic metric tensor $C_p = F_p^T F_p$, In K. Weinberg and A. Pando (eds), *Innovative Numerical Approaches for Multi-Field and Multi-Scale Problems*, Volume 81 of *Lecture Notes in Applied and Computational Mechanics*, pp. 161-195, Springer, 2016.

Citată în:

- 8) Grandi, D., & Stefanelli, U. (2017). Finite plasticity in $\mathbb{P}^{\text{top}} \setminus \mathbb{P}$. Part I: constitutive model. *Continuum Mechanics and Thermodynamics*, 29(1), 97-116. **(SRI 2019: 1.202)**
- 9) Grandi, D., & Stefanelli, U. (2017). Finite Plasticity in $\mathbb{P}^T \setminus \mathbb{P}$. Part II: Quasi-Static Evolution and Linearization. *SIAM Journal on Mathematical Analysis*, 49(2), 1356-1384. **(SRI 2019: 2.343)**
- 10) Jiao, Y., & Fish, J. (2018). On the equivalence between the multiplicative hyper-elasto-plasticity and the additive hypo-elasto-plasticity based on the modified kinetic logarithmic stress rate. *Computer Methods in Applied Mechanics and Engineering*, 340, 824-863. **(SRI 2019: 4.686)**

P. Neff, I.D. Ghiba. Loss of ellipticity in additive logarithmic finite strain plasticity, *International Journal of Non-Linear Mechanics*, 81, pp. 122-128, 2016.

Citată în:

- 11) Zhang, GD Feng, N Khandelwal, K A computational framework for homogenization and multiscale stability analyses of nonlinear

periodic materials *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING* PY 2021 VL 122 IS 22 BP 6527 EP 6575 DI 10.1002/nme.6802 (SRI 2019: 3.099)

- 12) Zhang, MJ Nguyen, K Segurado, J Montans, FJ A multiplicative finite strain crystal plasticity formulation based on additive elastic corrector rates: Theory and numerical implementation *INTERNATIONAL JOURNAL OF PLASTICITY* PY 2021 VL 137 AR 102899 DI 10.1016/j.ijplas.2020.102899 (SRI 2019: 4.059)
- 13) Nguyen, K Sanz, MA Montans, FJ Plane-stress constrained multiplicative hyperelasto-plasticity with nonlinear kinematic hardening. Consistent theory based on elastic corrector rates and algorithmic implementation *INTERNATIONAL JOURNAL OF PLASTICITY* PY 2020 VL 128 AR 102592 DI 10.1016/j.ijplas.2019.08.017 (SRI 2019: 4.059)
- 14) Zhang, MJ Montans, FJ A simple formulation for large-strain cyclic hyperelasto-plasticity using elastic correctors. Theory and algorithmic implementation *INTERNATIONAL JOURNAL OF PLASTICITY* PY 2019 VL 113 BP 185 EP 217 DI 10.1016/j.ijplas.2018.09.013 (SRI 2019: 4.059)
- 15) Latorre, M Montans, FJ A new class of plastic flow evolution equations for anisotropic multiplicative elastoplasticity based on the notion of a corrector elastic strain rate *APPLIED MATHEMATICAL MODELLING* PY 2018 VL 55 BP 716 EP 740 DI 10.1016/j.apm.2017.11.003 (SRI 2019: 2.138)
- 16) Computational anisotropic hardening multiplicative elastoplasticity based on the corrector elastic logarithmic strain rate By: Sanz, Miguel A.; Montans, Francisco J.; Latorre, Marcos *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING* Volume: 320 Pages: 82-121 Published: JUN 15 2017 (SRI 2019: 4.686)

P. Neff, I.D. Ghiba, J. Lankeit. The exponentiated Hencky-logarithmic strain energy. Part I: Constitutive issues and rank-one convexity, *Journal of Elasticity*, 121, pp. 143-234, 2015. (SRI 2016: 2.044, IF 2016: 1.909)

Citată în:

- 17) Korobeynikov, SN Family of Continuous Strain-Consistent Convective Tensor Rates and Its Application in Hooke-Like Isotropic Hypoelasticity *JOURNAL OF ELASTICITY* PY 2021 VL 143 IS 1 BP 147 EP 185 DI 10.1007/s10659-020-09808-2 (SRI 2019: 2,181)

- 18) Rezaee-Hajidehi, M Tuma, K Stupkiewicz, S A note on Pade approximants of tensor logarithm with application to Hencky-type hyperelasticity *COMPUTATIONAL MECHANICS* PY 2021 VL 68 IS 3 SI SI BP 619 EP 632 DI 10.1007/s00466-020-01915-0(SRI 2019: 2.677)
- 19) Voss, J Baaser, H Martin, RJ Neff, P More on Anti-plane Shear *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS* PY 2020 VL 184 IS 1 SI SI BP 226 EP 249 DI 10.1007/s10957-018-1358-6(SRI 2019: 1.309)
- 20) Prasad, D Kannan, K An analysis driven construction of distortional-mode-dependent and Hill-Stable elastic potential with application to human brain tissue *JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS* PY 2020 VL 134 AR 103752 DI 10.1016/j.jmps.2019.103752 (SRI 2019: 3.517)
- 21) Govindjee, S Zoller, MJ Hackl, K A fully-relaxed variationally-consistent framework for inelastic micro-sphere models: Finite viscoelasticity *JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS* PY 2019 VL 127 BP 1 EP 19 DI 10.1016/j.jmps.2019.02.014 (SRI 2019: 3.517)
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