

Lista de lucrări

i. Lista lucrărilor relevante

- [1] Popa, Viorel, Mihai Pavel, Eugen Lozincă, and Andrei Papurcu. 2026. "Behavior of Precast Beams with Emulative Connections Using Grouted Sleeves and Mechanical Couplers Under Cyclic Loading" *Buildings* 16, no. 10: 2001.
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- [2] Popa, Viorel. 2026. "Optimizing Investment Programs for Residential Buildings Through CO2e Footprint Assessment Under Seismic Risk" *Sustainability* 18, no. 10: 5041. <https://doi.org/10.3390/su18105041>
- [3] Popa, Viorel, Radu Pascu, Papurcu Andrei, and Albotă Emil. 2016. "Retrofitting of Squat Masonry Walls by FRP Grids Bonded by Cement-Based Mortar." *Earthquakes and Structures* 10, no. 1 (January 25, 2016): 125–39.
<https://doi.org/10.12989/eas.2016.10.1.125>
- [4] Popa, Viorel, Papurcu Andrei, Coțofană Dragoș, Pascu Radu. 2015. Experimental testing on emulative connections for precast columns using grouted corrugated steel sleeves, *Bulletin of Earthquake Engineering*, Springer, 13, 2429–2447
<https://doi.org/10.1007/s10518-014-9715-9>
- [5] Popa Viorel, Coțofană Dragoș, Văcăreanu Radu. 2014 Effective stiffness and displacement capacity of short reinforced concrete columns with low concrete quality, *Bulletin of Earthquake Engineering*, Springer, DOI 10.1007/s10518-014-9618-9

ii. Teza sau tezele de doctorat;

- [1] Cercetări privind siguranța în exploatare a construcțiilor industriale speciale de beton armat și măsuri de sporire a acesteia, îndrumător prof. dr. ing. Tudor Postelnicu, 205 p., 2006

iii. Brevete de invenție și alte titluri de proprietate intelectuală; nu este cazul

iv. Cărți și capitole din cărți;

- [1] Pavel Florin, Popa Viorel, Văcăreanu Radu. 2018. Impact of Long-Period Ground Motions on Structural Design: A Case Study for Bucharest, Romania, *SpringerBriefs*

in Geotechnical and Earthquake Engineering, Springer, 87p., ISBN 978-3-319-73402-6, DOI10.1007/978-3-319-73402-6

- [2] Managementul Riscului Seismic Urban Utilizand IIS (Editori G.M. Atanasiu, D. Galea) – Capitolul6: Noi concepte si metode in codul de evaluare seismica P100-3:2008 (V. Popa, T. Postelnicu), Editura Politehnia, 2009, ISBN 978-973-621-279-6, 25pag
- [3] „Îndrumător de proiectare a sistemelor structurale din zidărie cu blocuri ceramice cu goluri verticale”, Co-autor, Editura MATRIX ROM, 2007, ISBN 978-973-755-177-1, 94pag (12 autori)
- [4] „Evaluarea seismică a halelor de beton”, Viorel Popa, Editura MATRIX ROM, 2015, 160p
- [5] V. Popa, Construcții de beton armat, note de curs, partea I, Editura Conspress, ISBN 978-973-100-453-2, ISBN 978-973-100-454-9, 183pag
- [6] V. Popa, Construcții de beton armat, note de curs, partea II, Editura Conspress, ISBN 978-973-100-453-2, ISBN 978-973-100-512-6, 274pag
- [7] V. Popa, A. Papurcu, Structuri în cadre de beton – îndrumător de calcul, Editura Conspress, 2018, ISBN 978-973-100-463-1

v. Articole publicate în reviste din fluxul științific internațional principal;

- [1] Popa, Viorel, Mihai Pavel, Eugen Lozincă, and Andrei Papurcu. 2026. "Behavior of Precast Beams with Emulative Connections Using Grouted Sleeves and Mechanical Couplers Under Cyclic Loading" *Buildings* 16, no. 10: 2001. <https://doi.org/10.3390/buildings16102001>
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- [3] Popa, Viorel, and Bogdan Gheorghe. 2026. "Sustainability of Building Stock Rehabilitation: CO₂e Footprint of Energy Renovation and Seismic Strengthening, a Case Study" *Sustainability* 18, no. 8: 3735. <https://doi.org/10.3390/su18083735>
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- [5] Köber, Dietlinde, Felix Weber, Eugen Lozincă, and Viorel Popa. 2023. "Base Isolation Compared to Capacity Design for Long Corner Periods and Pulse-Type Seismic Records" *Applied Sciences* 13, no. 2: 1217. <https://doi.org/10.3390/app13021217>
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- [11] Popa V., 2017, Aspecte privind calculul eforturilor din variații de temperatură la coșuri industriale de beton armat, *AICPS Review* - 4/2017, pp. 4-12
- [12] Mihai Pavel, Dragoș Coțofană , Viorel Popa, 2017, Reguli de bună practică pentru ancorarea barelor grinzilor în nodurile grindă-stâlp , *AICPS Review* - 1-2/2017, pp. 180-191, <http://www.aicps.ro/revista/aicps-review-1-2-2017>
- [13] Viorel Popa, Mihai Dragomir, Șerban Dima, Dragoș Coțofană, Vasile Oprișoreanu, Claudiu Ursu, Bucharest One – Soluție structurală pentru o clădire de 120m înălțime, *Revista AICPS-Review*, 2015, 1-2:2-24
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- [20] V. Popa, 2002, Structural Performance Assessment Using a Full Probabilistic Procedure. Case Study – A Reinforced Concrete Elevated Water Tank, Bulletin of Technical University of Civil Engineering 1/2002
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- vi. Publicații apărute în lucrări ale principalelor conferințe internaționale de specialitate;
- [1] Emil Albotă, Fadei Elena Gabriela, Viorel Popa, 2013, Influence of the second order effects on lateral drift demand for structures, 13th International Multidisciplinary Scientific GeoConference, 10-16 June, Albena, Bulgaria
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