Georgios S. Papavasileiou

Civil Engineer, PhD.

Senior Lecturer in Civil Engineering, Subject Lead for Civil Engineering
Division of Engineering, School of Computing, Engineering and Physical Sciences
University of the West of Scotland, High St, Paisley PA1 2BE, UK
Mobile: +44 (0) 7946337346 || Email: george.papav@gmail.com
www.papavasileiou.info, www.linkedin.com/in/gpapavasileiou

SUMMARY OF PUBLISHED RESEARCH WORK

- 13 Peer-reviewed Journal Papers (1 more under review – 3 in preparation)
- 25 Peer-reviewed Conference Papers (1 in preparation)
- 2 Books (course books on 'Steel Structures' and 'Finite Element Analysis')
- 1 Book chapter
- 5 Theses

Citations: 195 citations peer-reviewed research papers - **h-index:** 6

PUBLICATIONS LIST

Peer-reviewed Journal Papers

		Cited in
J-14.	Kamaris, G. S., **Papavasileiou, G. S.**, Kamperidis, V. C., & Vasdravellis, G. (Under Submission - 2022). Residual drift risk of self-centering steel MRFs with novel steel column bases in near-fault regions. Submission to *Soil Dynamics and Earthquake Engineering*.	
J-13.	Pnevmatikos, N., Konstandakopoulou, F., **Papavasileiou, G.**, Papagiannopoulos, G., & Broukos, P. (2021). The effect of rotational component of earthquake excitation on the response of steel structures. *ce/papers*, 4(2-4), 1887-1892.	
J-12.	Kamperidis, V. C., **Papavasileiou, G. S.**, Kamaris, G. S., & Vasdravellis, G. (2020). Seismic collapse of self-centering steel MRFs with different column base structural properties. *Journal of Constructional Steel Research*, *175*(1), 106364. DOI: 10.1016/j.jcsr.2020.106364	6
J-11.	Pnevmatikos, N. G., Konstandakopoulou, F. D., Blachowski, B., **Papavasileiou, G. S.**, & Broukos, P. (2020). Multifractal analysis and wavelet leaders for structural damage detection. *Soil Dynamics and Earthquake Engineering*, 139, 106328. DOI: 10.1016/j.soildyn.2020.106328	7
J-10.	**Papavasileiou, G. S.**, Charmpis, D. C., & Lagaros, N. D. (2020). Optimized seismic retrofit of steel-concrete composite buildings. *Engineering Structures*, *213*, 110573. DOI: 10.1016/j.engstruct.2020.110573	10
J-09.	Pnevmatikos N.G., Konstandakopoulou F.D., Papagiannopoulos G.A., Hatzigeorgiou G.D., **Papavasileiou G.S.** (2020). Influence of earthquake rotational components on the seismic safety of steel structures. *Vibration* 2020, 3, 42-50. DOI: 10.3390/vibration3010005	2
J-08.	**Papavasileiou, G.S.**, & Charmpis, D.C. (2020). Earthquake-resistant buildings with steel or composite columns: comparative assessment using structural optimization. *Journal of Building Engineering, 27*, 100988. DOI: 10.1016/j.jobe.2019.100988	6
J-07.	Pnevmatikos, N.G., **Papavasileiou G.S.,** Konstandakopoulou, F.D. & Papagiannopoulos, G.A. (2019). Influence of Rotational Component of Earthquake Excitation to the Response of Steel Slender Frame, Materials Science Forum, 968, 294-300.	4

DOI:10.4028/www.scientific.net/MSF.968.294

J-06. Megalooikonomou K.G. & **Papavasileiou, G.S.** (2019). Analytical Stress-Strain Model for FRP-Confined Rectangular RC Columns. *Frontiers in Built Environment – Earthquake Engineering, 5, 39***.** DOI: 10.3389/fbuil.2019.00039 — 7

J-05. Pnevmatikos, N.G., Papagiannopoulos, G.A. & **Papavasileiou, G.S.** (2019). Fragility curves of complex concrete/steel frames subjected to seismic excitation. *Soil Dynamics and Earthquake Engineering*, 116, 709-713. DOI: 10.1016/j.soildyn.2018.09.037 — 17

J-04. **Papavasileiou, G.S.,** & Pnevmatikos, N.G. (2017). Optimized design of steel buildings against earthquake and progressive collapse using cables. *International Journal of Progressive Sciences and Technologies*, 6(1), 213-220. — 18

J-03. **Papavasileiou, G.,** & Pnevmatikos, N. (2017). The Cost of Retrofitting Steel-Concrete Composite Buildings Against Progressive Collapse with Steel Cables. *International Journal of Progressive Sciences and Technologies*, 6(1), 103-115. — 5

J-02. **Papavasileiou, G.S.,** (2017). Analytical framework for the substitution of steel-concrete composite columns with equivalent steel columns in structural design. *ESR Journal*, 2(1). — 2

J-01. **Papavasileiou, G.S.**, & Charmpis, D.C. (2016). Seismic design optimization of multi–storey steel–concrete composite buildings. *Computers & Structures*, 170, 49-61. DOI: 10.1016/j.compstruc.2016.03.010 — 57

Articles in Scientific Bulletins

Cited in

SB-01. **Papavasileiou, G.S.,** & Pnevmatikos, N.G. (2017). Optimized retrofit of steel-concrete composite buildings against earthquake and progressive collapse using steel cables. *Scientific Bulletin of the School of Science and Technology*, Hellenic Open University.

Articles in Technical Journals

Cited in

TJ-01. Hatzigeorgiou, G. D., Papagiannopoulos, G. A., Konstandakopoulou, F. D., **Papavasileiou, G. S.**, Pnevmatikos, N. G. (2020). Climate change – natural hazards – engineering structures. How ready are we? *Construction site issues*, *231*(1), pp. 35-37. http://www.tpressmagazines.gr/fc/ergotaxiaka/07.08.2020/mobile/html5forpc.html

Peer-reviewed Conference Papers

Cited in

C-25. Alogdianakis, F., Megalooikonomou, K. G., & **Papavasileiou, G. S.** (2021). Comparative non-structural vulnerability assessment methods for historical residential masonry buildings. In *Proceedings of the 8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering.*

C-24. Pnevmatikos, N.G., Hatzigeorgiou, G.D., **Papavasileiou G.S.,** Papagiannopoulos, G.A. & Broukos, P. (2020). The effect of rotational component of earthquake excitation on the response of steel structures. In *Proceedings of the 9th European Conference on Steel and Composite Structures (Eurosteel 2020).*

C-23. Pnevmatikos, N.G., **Papavasileiou G.S.,** Konstandakopoulou, F.D. & Papagiannopoulos, G.A. (2019). Analysis of a steel structure considering the rotational and translational components of the earthquake excitation. In *Proceedings of the* 4*th Hellenic National Conference on Earthquake Engineering and Technical Seismology*. — 1

C-22. Megalooikonomou K.G. & **Papavasileiou G.S.** (2019). Cyclic Material Model for

Rectangular Concrete Sections Confined with FRP Wraps in OpenSEES Software. In *Proceedings of the 4th Hellenic National Conference on Earthquake Engineering and Technical Seismology*.

C-21. **Papavasileiou G.S.,** & Pnevmatikos N.G. (2019). Assessment of the Effect of Steel Cables used as a Retrofit Method Against Progressive Collapse in the Seismic Performance of Steel Buildings. In *Proceedings of the 4th Hellenic National Conference on Earthquake Engineering and Technical Seismology.*

C-20. Pnevmatikos, N.G., Suryaninov, N., **Papavasileiou G.S.,** Konstandakopoulou, F.D. & Papagiannopoulos, G.A. (2019). Influence of rotational component of earthquake excitation to the response of steel slender frame. In *Proceedings of the Actual Problems of Engineering Mechanics.* 1

C-19. **Papavasileiou G.S.,** & Pnevmatikos N.G. (2019). The seismic performance of steel buildings retrofitted with steel cables against progressive collapse. In *Proceedings of the 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering.* 4

C-18. Pnevmatikos N.G., Blachowski B. & **Papavasileiou G.S.** (2019). Damage detection of mixed concrete/steel frame subjected to earthquake excitation. In *Proceedings of the 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering.* 1

C-17. Megalooikonomou K.G. & **Papavasileiou G.S.** (2019). Modeling of FRP-Confinement of Large-Scale Rectangular RC Columns. In *Proceedings of the 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*.

C-16. **Papavasileiou G.S.,** & Pnevmatikos N.G. (2018). Optimized retrofit of steel-concrete composite buildings against progressive collapse using steel cables. In *Proceedings of the 16th European Conference on Earthquake Engineering.* Springer International Publishing. 6

C-15. **Papavasileiou G.S.,** & Pnevmatikos N.G. (2017). Retrofit of Steel Buildings against Progressive Collapse Using Cables. In *Proceedings of the 2nd International Conference on Recent Advances in Nonlinear Modelling – Design and Rehabilitation of Structures.* 3

C-14. **Papavasileiou G.S.,** & Charmpis D.C. (2017). Retrofit of seismically designed steel-concrete composite structures to withstand progressive collapse. In *Proceedings of the 2nd International Conference on Recent Advances in Nonlinear Modelling – Design and Rehabilitation of Structures.* 2

C-13. **Papavasileiou, G.S.** (2017). Progressive collapse assessment of steel structures under fire. In *Proceedings of the 9th National Conference on Steel Structures.*

C-12. **Papavasileiou G.S.** (2017). Assessment of the effectiveness of cabling system configuration in retrofitting steel-concrete composite buildings. In *Proceedings of the 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering.* (1) pp. 2777-2791. DOI: 10.7712/120117.5606.17596 3

C-11. **Papavasileiou G.S.,** & Charmpis D.C. (2015). Optimized retrofit of seismically designed buildings to withstand progressive collapse. In *Proceedings of the 5th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering.* (1) pp. 3568-3579. DOI: 0.7712/120115.3639.1651 4

C-10. **Papavasileiou, G.S.,** & Megalooikonomou, K.G. (2015). Numerical simulation of FRP-confined circular bridge piers using OpenSEES. In *Proceedings of the OpenSEES Days Italy*. 4

C-09. Charmpis, D.C., & **Papavasileiou, G.S.** (2014). Designing against earthquake and progressive 5

collapse: A structural optimization approach applied to composite steel-concrete buildings. In *Proceedings of the 7th European Conference on Steel and Composite Structures (Eurosteel 2014*).

C-08. **Papavasileiou, G.S.,** & Charmpis, D.C. (2014). Enhancing the Progressive Collapse Resistance of Seismically Designed Steel-Concrete Composite Buildings. In *Proceedings of the 9th National Conference on Steel Structures.* 1

C-07. **Papavasileiou, G.S.** (2014). Considerations on the Progressive Collapse Design of Structures. In *Proceedings of the New Challenges in the World Science: Young Scientists' Joint Approaches* (pp. 30-34). 1

C-06. **Papavasileiou, G.S.**, Nikolaou, N., & Charmpis, D.C. (2013). Comparative assessment of buildings with pure steel or steel-concrete composite columns using structural design optimization. In *Proceedings of the 4th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*. (1) pp. 4557-4567. DOI: 10.7712/120113.4831.C1264 3

C-05. **Papavasileiou, G.S.** (2013). Current and future trends in structural engineering design. In *Proceedings of the 1st International Baku Forum: Challenges in the European Area*. (1) pp. 30-34.

C-04. **Papavasileiou, G.S.,** & Charmpis, D.C. (2012). Design optimization of steel-concrete composite structures with requirements on progressive collapse resistance. In *Proceedings of the 15th World Conference on Earthquake Engineering.* 4

C-03. **Papavasileiou, G.S.,** & Charmpis, D.C. (2012). Maximizing the collapse resistance of composite steel-concrete structures. In *Proceedings of the 10th World Congress on Computational Mechanics.* 1

C-02. **Papavasileiou, G. S.**, Charmpis, D.C., & Lagaros, N.D. (2011). Optimized seismic retrofit of steel-concrete composite frames. In *Proceedings of the 3rd ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering* (1) pp. 4573-4586. 8

C-01. Karalis, T., Karali, N., **Papavasileiou, G.S.**, Georgiadou, M., & Trigousi, C. (2005). The Coupling of Maliakos. In *Proceedings of the 5th Hellenic National Conference on Geotechnical and Geoenvironmental Engineering* (3) pp. 469-476.

Presentations/Articles in Institutional Conference Papers

Cited in

IC-01. **Papavasileiou, G. S.** (2019). Retrofit of steel and steel-concrete composite buildings against progressive collapse. In *Staff Conference 2019 – Our Sustainable Future.* Inverness College UHI.

Book Chapters

Cited in

Ch-1. **Papavasileiou, G. S.**, & Vourlioti, E. S. (2012). Trendy Science. In *The Concept of Good Governance, Sustainable Development and the Education of the Future Generation of Scientists* (pp. 31-61). Budapest, Hungary.

Books

Cited in

B-02. **Papavasileiou, G. S.** (2017). *Finite Elements in Structures*. Larissa, Greece: University of Applied Sciences of Thessaly. (Course Book prepared for the purposes of the undergraduate course "Finite Elements in Structures" at the Department of Mechanical Engineering)

B-01. **Papavasileiou, G. S.** (2016). *Design of Steel Structures*. Larissa, Greece: University of Applied Sciences of Thessaly. (Course Book prepared for the purposes of the undergraduate course "Steel Structures" at the Department of Mechanical Engineering)

Theses

Cited in

T-05. **Papavasileiou, G. S.** (2017). *Optimized design and retrofit of steel and steel-concrete composite buildings against earthquake and progressive collapse using cables.* Athens, Greece: Athens University of Applied Sciences. (Postdoctoral Thesis)

T-04. **Papavasileiou, G. S.** (2017). *Optimized retrofit of steel-concrete composite buildings against earthquake and progressive collapse using steel cables.* Patras, Greece: Hellenic Open University. (MSc. Thesis) [in Greek]

T-03. **Papavasileiou, G. S.** (2013). *Optimized seismic design and retrofit of collapse-resistant steel-concrete composite buildings.* Nicosia, Cyprus: University of Cyprus. (PhD Thesis) 1

T-02. **Papavasileiou, G. S.** (2008). *Non-linear dynamic analysis of a reinforced concrete frame using friction dampers*. Democritus University of Thrace, Xanthi, Greece. (MSc. Thesis) [in Greek]

T-01. **Papavasileiou, G. S.** (2007). *Simulation of steel and concrete composite columns with equivalent pure steel columns*. Democritus University of Thrace, Xanthi, Greece. (Diploma Thesis) [in Greek] 1

Research work information available online:

- **ORCID ID:** https://orcid.org/0000-0002-7969-0918
- **Google scholar:** https://scholar.google.gr/citations?user=6l3phKcAAAAJ&hl=el
- **ResearchGate:** https://www.researchgate.net/profile/Georgios_Papavasileiou2

Research Work Statistics

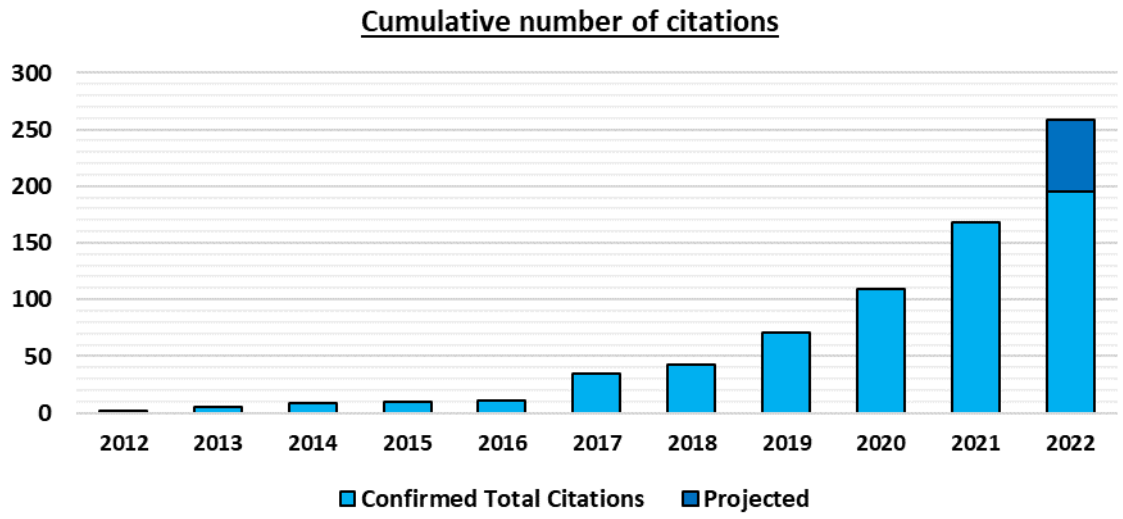

Figure 1. Cumulative number citations by the end of each year.

Editorial and Reviewer Positions in Peer-Reviewed International Journals

1. Advances in Civil Engineering (Reviewer)
2. Advances in Structural Engineering (Reviewer)
3. American Journal of Civil Engineering (Editorial Board Member)
4. American Journal of Engineering and Applied Sciences (Editorial Board Member)
5. Applied Sciences (Reviewer)
6. Asian Journal of Civil Engineering (Reviewer)
7. Buildings (Reviewer)
8. Bulletin of Earthquake Engineering (Reviewer)
9. Canadian Journal of Civil Engineering (Reviewer)
10. Early Stage Researchers Journal (Academic Editor & Reviewer)
11. Energies (Reviewer)
12. Fibers (Reviewer)
13. Frontiers in Built Environment: Computational Methods in Structural Engineering (Review Editor)
14. Frontiers in Built Environment: Earthquake Engineering (Review Editor)
15. International Journal of Environmental Research and Public Health (Reviewer)
16. International Journal of Civil Engineering and Structural Dynamics (Subject Specialist Editor)
17. J – Multidisciplinary Journal (Reviewer)
18. Journal of Computational Methods in Sciences and Engineering (Reviewer)
19. KSCE Journal of Civil Engineering (Reviewer)
20. Materials (Reviewer)
21. Mathematics (Reviewer)
22. Open Science Journal (Reviewer)
23. Processes (Reviewer)
24. Soil Dynamics and Earthquake Engineering (Reviewer)
25. Structural Engineering and Mechanics, An International Journal (Reviewer)
26. Structures (Reviewer)
27. Sustainability (Reviewer)
28. Symmetry (Reviewer)
29. Vibration (Reviewer)
30. World Journal of Civil Engineering and Construction Technology (Reviewer)
31. World Journal of Engineering (Reviewer)

Certified peer reviews online: https://publons.com/researcher/1659296/georgios-papavasileiou/

Review Statistics

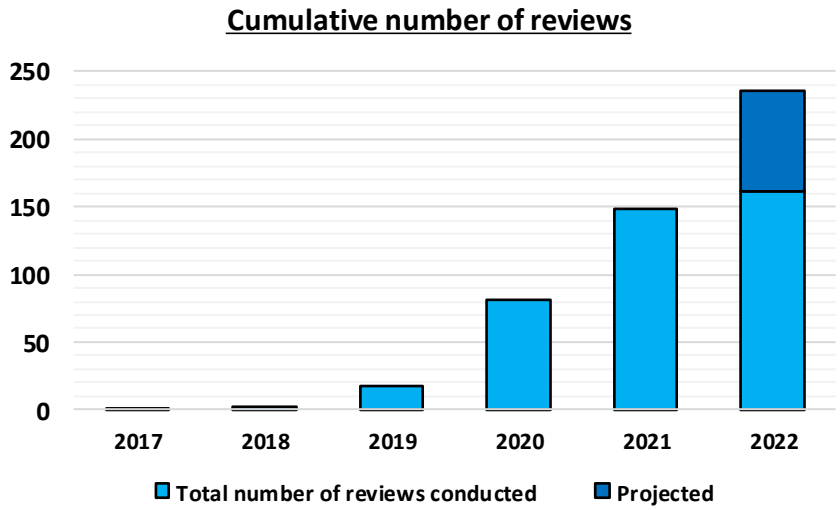

Figure 2. Cumulative number of reviews conducted by the end of each year.