

Scientific Publications:

1. **Bachar, I.** Mâagli, H: *Existence and Global Asymptotic Behavior of Positive Solutions for Superlinear Fractional Dirichlet Problems on the Half-line*, [Fractional Calculus and Applied Analysis](#), Vol. 19 (4) (2016), pp. 1031-1049. (ISI)
2. **Bachar, I.**, Mâagli, H.: *Superlinear singular fractional boundary value problems*, [Electronic Journal of Differential Equations](#), Vol. 2016 (2016), No. 108, pp. 1-15. (ISI)
3. **Bachar, I.**, Mâagli, H.: *Existence and global asymptotic behavior of positive solutions for combined second-order differential equations on the half-line*, [Advances in Nonlinear Analysis](#). Vol. 5 (3) (2016), pp. 205–222 (ISI)
4. **Bachar, I.**, Mâagli, H., V.D. Radulescu: *Fractional Navier boundary value problems , Boundary value problems*, (2016) 2016:79 DOI 10.1186/s13661-016-0586-7 (ISI)
5. **Bachar, I.**, Mâagli, H.: *Global Asymptotic Bahavior of Positive Solutions with Blow-up at the Boundary for Fractional Nonlinear Problems*, [Proceedings of the Romanian Academy, Series A](#), Vol. 17 (1) (2016), pp. 16-23. (ISI)
6. **Bachar, I.**, Mâagli, H.: *Sharp estimates on the solution of combine fractional boundary value problems on the half-line*, [Journal of Nonlinear Sciences and Applications](#), Vol. 9 (5) (2016), pp. 2331-2346. (ISI)
7. **Bachar, I.** Mâagli, H, Toumi, F, Zine el Abidine, Z: *Existence and Global Asymptotic Behavior of Positive Solutions for Sublinear and Superlinear Fractional Boundary Value Problems*, [Chinese Annals of Mathematics, Series B](#), Vol. 37 (1) (2016), pp. 1-28. (ISI)
8. Eltayeb, H., Klicman, A., **Bachar, I.**: *Modified Sumudo Decomposition Method for Lane-Emden Type Differential Equations*, [Advances in Mechanical Engineering](#), Vol. 7 (12) (2015), pp. 1-6. (ISI)
9. **Bachar, I.**: *Combined effects in nonlinear singular second-order differential equations on the half-line*, [Electronic Journal of Differential Equations](#), Vol. 2015 (2015), No. 235, pp. 1-12. (ISI)
10. **Bachar, I.**, Mâagli, H.: *Exact boundary behavior of the unique positive solution for singular second-order differential equations*, [Electronic Journal of Qualitative Theory of Differential Equations](#) 2015, No. 37, 1–15; doi: 10.14232/ejqtde.2015.1.37 (ISI)
11. **Bachar, I.**, Mâagli, H.: *Exitence and Uniqueness for Superlinear Second-Order Differential Equations on the Half-Line*, [Electronic Journal of Differential Equations](#), Vol. 2015 (2015), No. 08, pp. 1-14. (ISI)
12. **Bachar, I.**: *On some fractional Dirichlet problems in bounded domains*, [Mathematical Reports](#) .Vol. 17 No. 1, (2015), (ISI)
13. **Bachar, I.**, Mâagli, H.: *Positive solutions for superlinear fractional boundary value problems* [Advances in Differences Equations](#) (2014), 2014:240 (ISI)
14. **Bachar, I.**, Mâagli, H.: *Existence of Positive Solutions for Some Superlinear Fourth-Order Boundary Value Problems* [Journal of Function Spaces](#) Volume 2014, Article ID 384958, 9 pages (2014), (<http://dx.doi.org/10.1155/2014/384958>) (ISI)
15. **Bachar, I.**, Mâagli, H.: *Existence and global asymptotic behavior of positive solutions for nonlinear fractional Dirichlet problems on the half-line* [Abstr. Appl. Anal.](#) Volume 2014, Article ID 537971, 9 pages (2014) (<http://dx.doi.org/10.1155/2014/537971>) (ISI)
16. **Bachar, I.**: *Time-independent Schrödinger Polyharmonic Equation and Applications* [Bull. Math. Soc. Sci. Math. Roumanie](#). Tome 57 (105) No. 2, (2014), 163-179.
17. **Bachar, I.**, Mâagli, H.: *Existence and global asymptotic behavior of positive solutions for*

- nonlinear problems on the half-line* *J. Math. Anal. Appl.* Volume **416**, (2014), 181-194. (ISI)
18. **Bachar, I.**, Mâagli, H.: *Positive bounded solutions for semilinear elliptic equations in smooth domains* *Bulletin of the Belgian Mathematical Society -- Simon Stevin*, Vol. **20**, no. 4 (2013), 707-714. (ISI)
 19. **Bachar, I.**, Mâagli, H.: *Combined effects in nonlinear singular fractional Dirichlet problem in bounded domains* *Differential and Integral Equations*, Volume **26**, Nb 11-12 (2013), 1361-1378. (ISI)
 20. **Bachar, I.**, Mâagli, H.: *Existence and uniqueness of positive solution for a fractional Dirichlet problem with combined nonlinear effects in bounded domains*, *Abstr. Appl. Anal.* Volume 2013, (2013), Article ID 295480, 9 pages (<http://dx.doi.org/10.1155/2013/295480>) (ISI)
 21. **Bachar, I.**, Mâagli, H., Zeddini, N.: *Positive solutions for some Competitive systems in bounded domains*, *Journal of Function Spaces and applications* Volume 2013 (2013), Article ID 140130, 6 pages <http://dx.doi.org/10.1155/2013/140130>. (ISI)
 22. **Bachar, I.**: *Existence of positive solutions for nonlinear fractional systems in bounded domains* *Electronic Journal of Differential Equations*, Vol. 2012 (2012), No. 208, pp. 1–11. (ISI)
 23. **Bachar, I.**, Mâagli, H.: *On some quasi-metrics and their Applications*, *Journal of Inequalities and Applications* Volume 2009 (2009), Article ID 167403, 12 pages doi:10.1155/2009/167403 (ISI)
 24. **Bachar, I.**, Ben Othman, S., Mâagli, H.: *Radial solutions for the p -Laplacian equation*, *Nonlinear Analysis* **70** (2009), 2198-2205. (ISI)
 25. **Bachar, I.**, Ben Othman, S., Mâagli, H.: *Existence results of positive solutions for the radial p -Laplacian*, *Nonlinear Stud.* **15** no. 2, (2008), 177-189.
 26. **Bachar, I.**, Mâagli, H., Zeddini, N.: *Estimates on the Green Function and Existence of Positive Solutions for Some Nonlinear Polyharmonic Problems Outside the Unit Ball*, *Analysis and Applications* vol. **6**, no. 2 (2008), 121-150. (ISI)
 27. **Bachar, I.**: *Estimates for the Green function and Existence of positive solutions for higher order elliptic equations*, *Abstr. Appl. Anal.*, vol. **2006**, Article ID 89491, 22 pages, 2006. doi:10.1155/AAA/2006/89491 (ISI)
 28. **Bachar, I.**: *Existence of positive solutions for higher order singular sublinear elliptic equations*, *Electron. J. Differential. Equations.* **2006** (102), (2006), 1-9 (ISI)
 29. **Bachar, I.**, Zribi, M.: *Existence results for some polyharmonic problems in the half space*, *J. Math. Anal. Appl.* **322**, (2006), 610-620 (ISI)
 30. **Bachar, I.**: *Estimates for the Green function and existence of positive solutions of polyharmonic nonlinear equations with Navier boundary conditions*, *New Trends in Potential Theory*, 101-113, Theta, (2005).
 31. **Bachar, I.**: *Estimates for the Green function and characterization of a certain Kato class by the Gauss semigroup in the half space*, *J. Inequal. Pure and Appl. Math.* **6** (4) Art. 119, (2005)
 32. **Bachar, I.**: *Positive solutions blowing up at infinity for singular nonlinear problem*, *Nonlinear Stud.* **12** (2005), no. 4, 343-359
 33. **Bachar, I.**, Mâagli, H.: *Estimates on the Green's function and Existence of Positive Solutions of Nonlinear Singular Elliptic Equations in the Half Space*, *Positivity.* **9** (2005), no. 2, 153-192 (ISI)
 34. **Bachar, I.**, Mâagli, H., Zribi, M.: *Existence of positive solutions to nonlinear elliptic problem in the half space*, *Electron. J. Differential. Equations.* **2005** (44), (2005), 1-16 (ISI)
 35. **Bachar, I.**, Mâagli, H., Zribi, M.: *Estimates on the Green function and existence of positive solutions for some polyharmonic nonlinear equations in the half space*, *Manuscripta Math.* **113** (2004), no. 3, 269-291 (ISI)
 36. **Bachar, I.**, Mâagli, H., Zeddini, N.: *Estimates on the Green function and Existence of Positive Solutions of Nonlinear Singular Elliptic Equations*, *Commu. Contemp Math.* **5** (2003), no. 3, 401-434 (ISI)

37. **Bachar, I.**, Zeddini, N.: *On the existence of positive solutions for a class of semilinear elliptic equations*, [Nonlinear Anal.](#) **52** (2003), 1239-1247 (ISI)
38. **Bachar, I.**, Mâagli, H., Masmoudi, S., Zribi, M.: *Estimates for the Green function and singular solutions for polyharmonic nonlinear equation*, [Abstr. Appl. Anal.](#) **2003** (2003), no.12, 715-741 (ISI)
39. **Bachar, I.**, Mâagli, H., Mâatoug, L.: *Positive solutions of nonlinear elliptic equations in a half space in \mathbb{R}^2* , [Electron. J. Differential. Equations.](#) **2002** (41), (2002), 1-24 (ISI)
40. **Bachar, I.**: *On exit laws for semigroups in weak duality*, [Commentationes. Math. Univ. Carolinae](#) **42**, 4 (2001), 711-719
41. **Bachar, I.**: *Sur les lois de sortie des semi-groupes de convolution*, [Annales Mathematicae Silesianae](#) **15** (2001), 7-15