

List of Publications

1. Aadil Mushtaq, K. Moinuddin, N. Sharma and **Anita Tomar**, Asymptotic behaviour of $G - Cr$ Iteration algorithm and application to common zeros of accretive Operators, Stud. Univ. Babes-Bolyai Math., 2023. *in press*.
2. Nihal Tas, **Anita Tomar**, Meena Joshi, On existence and applications of non-unique fixed points via interpolative type contractive conditions, 30 (4), 2023, Nonlinear Studies (NS), 1263-1279.
3. Meena Joshi, **Anita Tomar**, Single-valued and set-valued dualistic partial F-weak contraction and applications, 30 (4), 2023, Nonlinear Studies (NS), 1329-1345.
4. Meena Joshi, **Anita Tomar**, Izhar Uddin, Fixed point in M^b_v –Metric space and applications, Acta Univ. Sapientiae, Math. 15 (1), 2023, 123–138, DOI: 10.2478/ausm-2023-0008.
5. **Anita Tomar**, Meena Joshi, S. K. Padaliya, On relation-theoretic F-Contractions and applications in F–Metric space, Acta Univ. Sapientiae, Math. 15(2), 2023 304-326. DOI: 10.2478/ausm-2023-0017
6. **Anita Tomar**, Nihal Tas, and Meena Joshi, On interpolative type non-unique fixed points, their geometry and applications on S-metric spaces, Applied Math. E-Notes., 23, 2023, 243-249.
7. **Anita Tomar**, Deepak Kumar, and Ritu Sharma, Meena Joshi, Results via Partial-b Metric and solution of a pair of elliptic boundary value problem, Sahand Commun. Math. Anal., 2023, 20(04), 205-223. <https://doi.org/10.22130/scma.2023.563638.1187>
8. Meena Joshi, Shivangi Upadhyay, **Anita Tomar**, Mohammad Sajid, Geometry and application in economics of fixed point, Symmetry, 2023, 15(03), 704, 19 pages. <https://doi.org/10.3390/sym15030704>
9. Amit Gangwar, **Anita Tomar**, Mohammad Sajid , Ramesh Chandra Dimri, Common fixed points and convergence results for α –Krasnosel'skii mappings, AIMS Math., 8(4) 2023, 9911–9923. DOI:10.3934/math.2023501
10. **Anita Tomar**, Vipul Kumar, U. S. Rana, Mohammad Sajid, Fractals as Julia and Mandelbrot sets of complex cosine functions via fixed point iterations, Symmetry, 2023, 15, 478. <https://doi.org/10.3390/sym15020478>
11. Sudheer Petwal, **Anita Tomar**, Meena Joshi, Best proximal for set-valued maps via proximal relations, Int. J. Nonlinear Anal. Appl., 14 (1) 2023, 1237–1247. <http://dx.doi.org/10.22075/ijnaa.2022.25299.2983>
12. **Anita Tomar** and Meena Joshi, On existence of fixed points and applications to a boundary value problem and a Matrix equation in C^* –Algebra Valued Partial Metric Spaces, Acta Univ. Sapientiae, Math., 14, 2 (2022) 341-355. DOI: 10.2478/ausm-2022-0023
13. Sudheer Petwal, **Anita Tomar** and Meena Joshi, On unique and non-unique fixed point in parametric N_b –metric spaces with application, Acta Univ. Sapientiae, Math. 14(2), 2022, 278 - 307. DOI: 10.2478/ausm-2022-0019
14. Meena Joshi, **Anita Tomar**, Thabet Abdeljawad, On Fixed Point, its geometry and application to satellite web coupling problem in S–Metric Spaces, AIMS Math., 8(2), 2023, 4407-4441. doi: 10.3934/math.20232202023501
15. Santosh Kumar, **Anita Tomar**, Gopi Prasad, On solution of nonlinear integral and fractional differential equations via discontinuous nonlinear contractions, J. Math., 2022, Article ID 7257000, 11 pages, 2022. <https://doi.org/10.1155/2022/7257000>
16. **Anita Tomar**, U.S.Rana and Vipul Kumar, Fixed point, its geometry and application via ω -interpolative contraction of Suzuki type mapping, Math. Meth. Appl. Sci. (Special Issue), 2022,1-22. DOI: <https://doi.org/10.1002/mma.8871>
17. **Anita Tomar**, Swati Antal, Darshana J. Prajapati, Parveen Agarwal, Mandelbrot fractals using fixed-point technique of sine function, Proc. Inst. Math. Mech. Acad. Sci. Azerb. 48(Special Issue) 2022,194–214. <https://doi.org/10.30546/2409-4994.48.2022.194214> .
18. Said Beloul, **Anita Tomar**, and Meena Joshi, On solutions to open problems and Volterra-Hammerstein non-linear integral equation, Applied Math. E-Notes, 22, 2022. 692-711.
19. Darshana J. Prajapati, Shivam Rawat, **Anita Tomar**, R.C. Dimri, Mohammad Sajid, A brief study of dynamics of Julia sets for entire transcendental function using Mann iterative scheme, Fractals and Fract. 6(7):397, 2022. <https://doi.org/10.3390/fractalfract6070397>.
20. Nihal Özgu r, Swati Antal, **Anita Tomar**, Julia and Mandelbrot sets of transcendental function via Fibonacci-Mann iteration, J. Funct. Spaces, 2022, Article ID 2592573, 13 pages. <https://doi.org/10.1155/2022/2592573>
21. **Anita Tomar**, Darshana J. Prajapati, Swati Antal, Shivam Rawat, Variants of Mandelbrot and Julia fractals for higher-order complex polynomials, Math. Meth. Appl. Sci. 2022;1-13. DOI: 10.1002/mma.8262.

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23. **Anita Tomar** and Meena Joshi and Sanjay Kumar Padaliya, Relation theoretic contractions and its applications in b -metric like spaces, J. Appl. Anal., 28(2), 295-309, 2022. <https://doi.org/10.1515/jaa-2021-2083>.
24. Meena Joshi, **Anita Tomar**, Near fixed point, near fixed interval circle and their equivalence classes in a b -interval metric space, Int. J. Nonlinear Anal. Appl. 13(1) (2022). <http://dx.doi.org/10.22075/ijnaa.2021.21721.2291>.
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26. Swati Antal, **Anita Tomar**, U. C. Gairola, Relation theoretic results via simulation function with applications, Int. J. Nonlinear Anal. Appl. 13 (2022) 1, 1769-1783. <http://dx.doi.org/10.22075/ijnaa.2021.21036.2224>.
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29. Swati Antal, **Anita Tomar** and Darshana J. Prajapati, Mohammad Sajid, Fractals as Julia sets of complex sine function via fixed point iterations, Fractal and Fractional, 5(4), 272, 2021. <https://doi.org/10.3390/fractalfract5040272>
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31. Meena Joshi and **Anita Tomar**, A., On unique and nonunique fixed points in metric spaces and application to chemical sciences, J. Funct. Spaces, 2021, Article ID5525472, 11pages. <https://doi.org/10.1155/2021/5525472>.
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33. H. Ansari, **Anita Tomar**, C -class and pair upper class functions and other kind of contractions in fixed point theory, Scientific Publications of the State University of Novi Pazar Ser. A: Appl. Math. Inform. and Mech. 13(1) (2021), 43-60.
34. Manish Jain, **Anita Tomar**, Meena Joshi, and Kenan Tas, Ordered generalized ϕ -contraction in ordered fuzzy metric spaces with an application in dynamic programming, J. Math. Control Sci. Appls., 7(1) 2021, 57–68.
35. Meena Joshi, **Anita Tomar**, Hossam A Nabwey, and Reny George, On unique and nonunique fixed points and fixed circles in M^b_v -metric space and application to cantilever beam problem, J. Funct. Spaces 2021, Art. ID 6681044, 15 pages, 2021. <https://doi.org/10.1155/2021/6681044>
36. Said Beloul, **Anita Tomar**, Ritu Sharma, Weak subsequential continuity in fuzzy metric space and application, Int. J. Nonlinear Anal. Appl. 12(2) (2021), 1485-1486.
37. Sudheer Petwal, **Anita Tomar** and Meena Joshi, Fixed point on complete m -metric spaces via $f(\psi, \phi)$ -contraction mappings and application to periodic differential equation, Azerbaijan J. Math., Spec. Iss., 2021, 29-48.
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41. **Anita Tomar** and Meena Joshi, Note on results in C^* -algebra-valued metric spaces, Electron. J. Math. Anal. Appl. 9(2) 2021, 262-264. <https://doi.org/10.1007/s41478-019-00204-frac.org/Journals/EJMAA/>.
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Chapter in Books:

1. Shivangi Upadhyay, Meenakshi Rana & **Anita Tomar**, Contribution of Aryabhat in Ancient Mathematics, Chapter in proceedings of the National Conference of Mathematics and its Application in Science Uttarakhand Open University, Haldwani, Nainital, December 22-23, 2022, Pacific Books International, ISBN 978-93-92469-16-9.
2. **Anita Tomar**, Meena Joshi, Dhananjay Kumar, Fermat's Contribution in Mathematics, Chapter in a book, Understanding Values and Ethics in Shrinking World, Bloomsbury Publishing India Pvt. Ltd., March 2022, 60-72. ISBN 978-93-54358-94-4.
3. **Anita Tomar** and M.C. Joshi, "Fixed Point Theory & its Applications to Real World Problem", Nova Science Publishers, New York, USA, 2021. (*indexed in Scopus*). ISBN 978-1- 53619-336-7.
4. Meena Joshi, **Anita Tomar** and S. K. Padaliya, On geometric properties of non-unique fixed points in b-metric spaces, Chapter in a book, Fixed Point Theory & its Applications to Real World Problem, Nova Science Publishers, New York, USA, 2021, 33-50. (*indexed in Scopus*) ISBN 978-1-53619-336-7.
5. **Anita Tomar** and Meena Joshi, Near fixed point, near fixed interval circle and near fixed interval disc in metric interval space, Chapter in a book, Fixed Point Theory & its Applications to Real World Problem, Nova Science Publishers, New York, USA, 2021, 131-150. (*indexed in Scopus*) ISBN 978-1-53619-336-7.
6. **Anita Tomar**, Meena Joshi, Venkatesh Bhatt and GiniSwamy, Applications of generalized α -Ćirić' and α -Browder contractions in Partial Metric Spaces, Chapter in a book, Fixed Point Theory & its Applications to Real World Problem, Nova Science Publishers, New York, USA, 2021, 151-170. (*indexed in Scopus*) ISBN 978-1- 53619-336-7.
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9. **Anita Tomar**, Shivangi Upadhyay and Ritu Sharma, Common Fixed Point Theorems with an Application, Chapter in a book, **Recent Advances in Fixed Point Theory and Applications**, Nova Science Publishers, New York, USA. 2017, 157-169. ISBN:978- 1-53612- 085-1. (*indexed in Scopus*).
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