AJAY K. SHARMA

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Current Position

Professor, Department of Mathematics, Central University of Jammu, Rahya Suchani-181143, Samba, J&K, India **(12-09-2020 onwards)**

Academic Experience

Associate Professor, Department of Mathematics, Central University of Jammu, Rahya Suchani-181143, Samba, J&K, India **(12-09-2017 to 11-09-2020)**

Assistant Professor, Department of Mathematics, Shri Mata Vishnu Devi University, Kakrial-181120, Katra, J&K, India **(19-8-2006 to 11-09-2017)**

Educational Qualification

Ph.D. (in Mathematics) Department of Mathematics, University of Jammu, **(2007) Awarded**

M.Phil. (in Mathematics) Department of Mathematics, University of Jammu, **(2001) A-Grade**

M.Sc. (in Mathematics) Department of Mathematics, University of Jammu, **(1998) Ist Division**

B.Sc. (Physics, Chemistry and Mathematics) GGM Science College University of Jammu, **(1996) Ist Division**

10+2. (Physics, Chemistry and Mathematics) Govt. Higher Secondary School, R.S. Pura, **(1993) Ist Division**

10th. (Mathematics, Science, S.Science, Hindi and English) Govt. High School Badal Brahmana **(1993) Ist Division**

Title of Ph.D. thesis	Operators on some vector-valued Hardy and Bergman classes
Awards and Honours	Awards and Honours. Qualified **NET/JRF** exam conducted by CSIR, 2001 JRF (2002-04), University of Jammu. SRF(2004-06), University of Jammu.
Area of Specialisation/ Interest	Functions of a Complex variable, Complex Analysis, Functional analysis and Operator theory.
Research Projects Completed	Principal Investigator in the major research project Composition operators and Dynamics of compled valued functions, **Funded by NBHM,** Duration 3 years, 2009-2012, **Amount 8 lakh**. (Completed). Principal Investigator in the major research project Difference of composition operators between spaces of holomorphic functions, **Funded by NBHM,** Duration 3 years, 2019-2022, **Amount 14.06 lakh**. (Completed). Principal Investigator in the major research project On topological properties of composition operators, **Funded by Serb DST,** Duration 3 years, 2019-2022, **Amount 6.6 lakh.** (Completed).

Ph.D. Guidance/ Supervision

S.No.	Name of the Scholar	Date of Admission	University	Date of Award of Degree/ Submission of thesis
1.	Sunil Kumar Sharma (Co- Supervisor)	01-01- 2010	SMVDU	2013(Awarded)
2.	AmbikaBhat	30-09-2009	SMVDU	2014(Awarded)
3.	ElinaSubhadarsini	30-12-2011	SMVDU	2020(Awarded)
4.	Ram Krishan	08-02-2013	SMVDU	2019(Awarded)
5.	Manisha Devi (Co-supervisor)	17- 08-2015	SMVDU	2021(Awarded)
6	Mehak Sharma	16-08-2019	Central University of Jammu	2022(Awarded)
7	Aakariti Sharma		Central University of Jammu	2023(Awarded)
8	Vivek Kumar		Central University of Jammu	2023(Awarded)

Foreign Collaborators

Professor Stevo Stevic, Mathematical Institute of the Serbian Academy of Sciences, Knez Mihailova 36/III, 11000 Beograd, **Serbia** (Number of publications=16)

Professor Flavia Colonna *Department of Mathematical Sciences, George Mason University, Fair-fax, VA 22030,* ***USA*** *(Number of publications=1)*

Professor Sei-Ichiro Ueki (Japan)*Department of Mathematics, School of Science, Yokohama National University,* ***Japan****. (Number of publications=8)*

Professor Zengjian Lou, *Shantou University, Guangdong Shantou 515063, P. R.* ***China*** *(Number of publications=1)*

Professor Junming Liu, *Shantou University, Guangdong Shantou 515063, P. R.* ***China*** *(Number of publications=1)*

Foreign Visits

Attended and presented a paper entitled, *Difference of composition operators,* In the 6th International Conference on Mathematics and Information Sciences, Feb. 9-11,2017, Zewail city of Science and Technology, Cairo, **Egypt**

Number of Citations (MathScinet): **388**

Number of authors who Citied our papers (

MathScinet): **152**

Number of Citations (Google Scholar): **> 1000**

H Index: **15**

i10 Index: **30**

Working experience as Editor of reputed journals:

1.American Journal of Mathematics and Statistics (Continued)
2. The Scientific world journal (worked as editor from 2013-2016)

Courses Taught

Courses taught at PG/UG level:

(i) Abstract Algebra

(ii) Linear Algebra

(iii) Real Analysis

(iv) Complex Analysis

(v) Measure and Integration

(vi) Advanced topics in Measure Theory

(vii) Functional Analysis

(viii) Entire Functions

(ix) Operator Theory

(x) Differential Equations and Vector Calculus

Publications

1. Sharma Ajay K., Sharma, Mehak,; Difference of composition operators on the minimal Mobius invariant space, ***Rocky Mountain J. Math.*** (Accepted)

2. Sharma, Aakriti, Sharma, Ajay K.; Order bounded and compact sums of weighted composition-differentiation operator, ***Complex Variables and Elliptic equations.****(2023)* https://doi.org/10.1080/17476933.2023.2249420

3. Farooq, Shayesta; Sharma, Ajay K.; Mursaleen, M. Essential norm of weighted differentiation composition operators on Bergman spaces with admissible weights. ***J. Anal.*** 31 (2023), no. 1, 779–790.

4. Muthukumar, P.; Sharma, Ajay K.; Kumar, Vivek Weighted composition operators between weighted Hardy spaces on rooted trees. ***Mediterr. J. Math.*** 20 (2023), no. 2, Paper No. 61, 21 pp.

5. Sharma, Aakriti; Sharma, Ajay K.; Mursaleen, M. Vanishing Carleson measures and power compact weighted composition operators. ***Methods Funct. Anal. Topology*** 28 (2022), no. 3, 259–273.

6. Sharma, Ajay K.; Ueki, Sei-Ichiro Essential norm of difference of composition operators from analytic Besov spaces to Bloch type spaces. ***Comput. Methods Funct. Theory*** 22 (2022), no. 4, 683–697.

7. Sharma, Ajay K.; Sharma, Mehak; Musarleen, Mohammad Semigroups of composition operators on vector-valued Hardy spaces. ***Numer. Funct. Anal. Optim.*** 43 (2022), no. 7, 876–885.

8. Sharma, Ajay K.; Ueki, Sei-ichiro Differences of composition operators from analytic Besov spaces into little Bloch type spaces. ***Filomat*** 35 (2021), no. 12, 3909–3917.

9. Sharma, M.; Sharma, A. K.; Mursaleen, M. On double difference of composition operators from a space generated by the Cauchy kernel and a special measure. ***Azerb. J. Math.*** 11 (2021), no. 2, 125–136.

10. Devi, Manisha; Sharma, Ajay K.; Raj, Kuldip Inequalities involving essential norm estimates of product-type operators. ***J. Math.*** 2021, Art. ID 8811309, 9 pp.

11. Subhadarsini, Elina; Sharma, Ajay K. Upper and lower bounds for essential norm of weighted composition operators from Bergman spaces with Békollé weights. ***J. Funct. Spaces*** 2020, Art. ID 2696713, 6 pp.

12. Sharma, Ajay K. Norm of a composition operator from the space of Cauchy transforms into Zygmund-type spaces. *Ukraïn. Mat. Zh.* 71 (2019), no. 12, 1699–1711; *reprinted in* ***Ukrainian Math. J.*** 71 (2020), no. 12, 1945–1958.

13. Sharma, Ajay K.; Kumar, Vivek Discrete Cesaro operator between weighted Banach spaces on homogenous trees. ***Adv. Oper. Theory*** 5 (2020), no. 4, 1667–1683.

14. Sharma, Ajay K.; Ueki, Sei-ichiro Mean Lipschitz conditions and growth of area integral means of functions in Bergman spaces with an admissible Békollé weight.***Rocky Mountain J. Math.*** 50 (2020), no. 2, 693–706.

15. Sharma, Ajay K.; Sharma, Aakriti Boundedness, compactness and the Hyers-Ulam stability of a linear combination of differential operators. ***Complex Anal. Oper. Theory*** 14 (2020), no. 1, Paper No. 14, 12 pp.

16. Sharma, Mehak; Sharma, Ajay K. On order bounded difference of weighted composition operators between Hardy spaces. ***Complex Anal. Oper. Theory*** 13 (2019), no. 5, 2191–2201.

17. Sharma, Ajay K.; Sharma, Mehak; Raj, Kuldip Composition operators on the Dirichlet space of the upper half-plane. ***New York J. Math.*** 25 (2019), 198–206.

18. Sharma, Sunil K.; Mohiuddine, S. A.; Sharma, Ajay K.; Sharma, T. K. Sequence spaces over n-normed spaces defined by Musielak-Orlicz function of order (α,β). ***Facta Univ. Ser. Math. Inform.*** 33 (2018), no. 5, 721–738.

19. Sharma, Ajay K.; Sharma, Mehak; Subhadarsini, Elina Weighted composition operators from the Kim class and the Smirnov class to weighted Bloch type spaces. ***Commun. Korean Math. Soc.*** 33 (2018), no. 4, 1171–1180.

20. Stević, Stevo; Sharma, Ajay K. On a product-type operator between Hardy and α-Bloch spaces of the upper half-plane. ***J. Inequal. Appl.*** 2018, Paper No. 273, 18 pp.

21. Sharma, Ajay K.; Bhat, Ambika; Devi, Manisha Hardy-Stein type identities and rate of growth of mean values of functions in generalized Hardy spaces. ***Complex Anal. Oper. Theory*** 12 (2018), no. 6, 1443–1451.

22. Krishan, Ram; Sharma, Mehak; Sharma, Ajay K. Essential norm of difference of composition operators from weighted Bergman spaces to Bloch-type spaces. ***J. Funct. Spaces*** 2018, Art. ID 4670904, 7 pp.

23. Sharma, Sunil K.; Raj, Kuldip; Sharma, Ajay K. Some sequence spaces of invariant means and lacunary defined by a Musielak-Orlicz function over n-normed spaces. ***Tbilisi Math. J.*** 11 (2018), no. 1, 31–47.

24. Sharma, Ajay K. On order bounded weighted composition operators between Dirichlet spaces. ***Positivity*** 21 (2017), no. 3, 1213–1221.

25. Sharma, Ajay K.; Ueki, Sei-Ichiro Compact composition operators on the Bloch space and the growth space of the upper half-plane. ***Mediterr. J. Math.*** 14 (2017), no. 2, Paper No. 76, 9 pp.

26. Sharma, Ajay K.; Bhat, Ambika; Chugh, Renu; Subhadarsini, Elina Inequalities involving norm and essential norm of weighted composition operators. ***J. Math. Inequal.*** 11 (2017), no. 1, 225–240.

27. Sharma, Ajay K.; Krishan, Ram; Subhadarsini, Elina Difference of composition operators from the space of Cauchy integral transforms to Bloch-type spaces. ***Integral Transforms Spec. Funct.*** 28 (2017), no. 2, 145–155.

28. Sharma, A. K.; Subhadarsini, E. Composition operators on weighted Bergman-Nevanlinna spaces with admissible weights. ***Khayyam J. Math.*** 2 (2016), no. 2, 201–208.

29. Subhadarsini, Elina; Sharma, Ajay K. A class of integral operators from weighted integral transforms to Dirichlet spaces. ***Cogent Math.*** 3 (2016), Art. ID 1132911, 8 pp.

30. Stević, Stevo; Sharma, Ajay K.; Krishan, Ram Boundedness and compactness of a new product-type operator from a general space to Bloch-type spaces. ***J. Inequal. Appl.*** 2016, Paper No. 219, 32 pp.

31. Sharma, Ajay K.; Krishan, Ram Difference of composition operators from the space of Cauchy integral transforms to the Dirichlet space. ***Complex Anal. Oper. Theory*** 10 (2016), no. 1, 141–152.

32. Sharma, Ajay K.; Krishan, Ram; Subhadarsini, Elina Weighted composition operators from Nevanlinna type spaces to weighted Bloch type spaces. ***Tbilisi Math. J.*** 8 (2015), no. 2, 315–323.

33. Stević, Stevo; Sharma, Ajay K. Weighted composition operators from weighted Bergman spaces with Békollé weights to Bloch-type spaces. ***J. Inequal. Appl.*** 2015, 2015:337, 14 pp.

34. Sharma, Ajay K.; Bhat, Ambika Approximation numbers of composition operators on weighted Hardy spaces. ***Khayyam J. Math.*** 1 (2015), no. 1, 71–81.

35. Sharma, Ajay K.; Bhat, Ambika The rate of increase of mean values of functions in weighted Hardy-Orlicz spaces. ***An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.)*** 61 (2015), no. 1, 161–168.

36. Raj, Kuldip; Sharma, Sunil K.; Sharma, Ajay K. Some double sequence spaces defined by a sequence of Orlicz functions over n-normed spaces. ***Sci. Math. Jpn.*** 77 (2014), no. 1, 69–81.

37. Sharma, Ajay K.; Sharma, Anshu Integration operators from Cauchy integral transforms to weighted Dirichlet spaces. ***New Zealand J. Math.*** 44 (2014), 93–101.

38. Sharma, Ajay K.; Krishan, Ram Products of composition and iterated differentiation operators from fractional Cauchy transforms to weighted Bloch-type spaces. ***Acta Univ. M. Belii Ser. Math.*** 22 (2014), 35–44.

39. Sharma, Ajay K.; Sharma, Anshu Integration operators from the space of Cauchy integral transforms to the Dirichlet space. ***Adv. Pure Appl. Math.*** 5 (2014), no. 1, 47–53.

40. Sharma, Ajay K. Essential norm of generalized composition operators on weighted Hardy spaces. ***Oper. Matrices*** 8 (2014), no. 2, 399–409.

41. Sharma, Ajay K.; Ueki, Sei-ichiro Composition operators between weighted Bergman spaces with admissible Békollé weights. ***Banach J. Math. Anal.*** 8 (2014), no. 1, 64–88.

42. Raj, Kuldip; Sharma, Ajay K.; Sharma, Sunil K. Some difference sequence spaces defined by Musielak-Orlicz function. ***Math. Pannon.*** 24 (2013), no. 1, 33–43.

43. Raj, Kuldip; Sharma, Ajay K. Sequence spaces defined by a sequence of modulus functions. ***Sci. Stud. Res. Ser. Math. Inform.*** 23 (2013), no. 2, 115–126.

44. Sharma, Ajay K.; Ueki, Sei-Ichiro Angle of contact of lens and lunar maps and products of composition and iterated differentiation. ***Ars Combin.*** 109 (2013), 415–423.

45. Colonna, Flavia; Sharma, Ajay K. Boundedness, compactness and order boundedness of products of composition, multiplication and iterated differentiation between Hardy and weighted Bergman spaces. ***Indian J. Math.*** 55 (2013), no. 1, 57–100.

46. Raj, Kuldip; Sharma, Ajay K.; Sharma, Sunil K. Sequence spaces defined by a Musielak-Orlicz function in 2-normed spaces. ***J. Comput. Anal. Appl.*** 15 (2013), no. 1, 142–151.

47. Sharma, Sunil K.; Raj, Kuldip; Sharma, Ajay K. Some double sequence spaces in n-normed spaces using ideal convergence and a sequence of Orlicz functions. ***J. Nonlinear Anal. Optim.*** 4 (2013), no. 1, 1–11.

48. Liu, Junming; Lou, Zengjian; Sharma, Ajay K. Weighted differentiation composition operators to Bloch-type spaces. ***Abstr. Appl. Anal.*** 2013, Art. ID 151929, 9 pp.

49. Bhat, Ambika; Sharma, Anshu; Sharma, Ajay K. Volterra composition operators between weighted Bergman and Bloch-type spaces. ***Math. Æterna*** 3 (2013), no. 3-4, 309–316.

50. Sharma, Ajay K. Weighted composition operators from Cauchy integral transforms to logarithmic weighted-type spaces. ***Ann. Funct. Anal.*** 4 (2013), no. 1, 163–174.

51. Sharma, Ajay K. Generalized composition operators between Hardy and weighted Bergman spaces. ***Acta Sci. Math. (Szeged)*** 78 (2012), no. 1-2, 187–211.

52. Sharma, Ajay K.; Raj, Kuldip; Sharma, Sunil K. Products of multiplication composition and differentiation operators from H∞ to weighted Bloch spaces. ***Indian J. Math.*** 54 (2012), no. 2, 159–179.

53. Raj, Kuldip; Sharma, Ajay K.; Kumar, Anil Weighted composition operators on Musielak-Orlicz spaces. ***Ars Combin.*** 107 (2012), 431–439.

54. Sharma, Sunil K.; Raj, Kuldip; Sharma, Ajay K. Some new double sequence spaces over n-normed spaces. ***Int. J. Appl. Math.*** 25 (2012), no. 2, 255–269.

55. Bhat, Ambika; Abbas, Zaheer; Sharma, Ajay K. Composition followed by differentiation between weighted Bergman-Nevanlinna spaces. ***Math. Æterna*** 2 (2012), no. 5-6, 379–388.

56. Raj, Kuldip; Sharma, Sunil K.; Sharma, Ajay K. Upper and lower bounds for products of multiplication operator and Hausdorff matrix on block weighted sequence spaces. ***Int. Electron. J. Pure Appl. Math.*** 4 (2012), no. 2, 83–89.

57. Raj, Kuldip; Sharma, Ajay K.; Sharma, Sunil K.; Singh, Sulinder Some double sequence spaces defined by a sequence of Orlicz functions over n-normed spaces. ***Lobachevskii J. Math.*** 33 (2012), no. 2, 183–190.

58. Stević, Stevo; Sharma, Ajay K. Integral-type operators between weighted Bergman spaces on the unit disk. ***J. Comput. Anal. Appl.*** 14 (2012), no. 7, 1339–1344.

59. Stević, Stevo; Sharma, Ajay K.; Sharma, S. D. Generalized integration operators from the space of integral transforms into Bloch-type spaces. ***J. Comput. Anal. Appl.*** 14 (2012), no. 6, 1139–1147.

60. Stević, Stevo; Sharma, Ajay K. Composition operators from weighted Bergman-Privalov spaces to Zygmund type spaces on the unit disk. ***Ann. Polon. Math.*** 105 (2012), no. 1, 77–86.

61. Stević, Stevo; Sharma, Ajay K. Generalized composition operators on weighted Hardy spaces. ***Appl. Math. Comput.*** 218 (2012), no. 17, 8347–8352.

62. Raj, Kuldip; Sharma, Ajay K.; Kumar, Anil; Sharma, Sunil K. Double multiplier sequence spaces of fuzzy numbers defined by a sequence of Orlicz function. ***J. Appl. Funct. Anal.*** 7 (2012), no. 3, 241–247.

63. Sharma, Ajay K.; Raj, Kuldip; Singh, Sulinder A class of integration operators from mixed normed spaces to Bloch-type spaces in the unit ball of Cn. ***Int. J. Math. Comput.*** 14 (2012), no. 1, 93–101.

64. Sharma, Ajay K.; Ueki, Sei-Ichiro Composition operators from Nevanlinna type spaces to Bloch type spaces. ***Banach J. Math. Anal.*** 6 (2012), no. 1, 112–123.

65. Raj, Kuldip; Sharma, Sunil K.; Sharma, Ajay K. Upper and lower bounds for products of multiplication operator and Hausdorff matrix on block weighted sequence spaces. ***Int. J. Pure Appl. Math.*** 72 (2011), no. 4, 565–571.

66. Sharma, Ajay K.; Bhat, Ambika; Sharma, Anshu Integration type operators between weighted Bergman and Bloch type spaces. ***Int. J. Math. Sci. Eng. Appl.*** 5 (2011), no. 5, 85–95.

67. Sharma, Ajay K.; Ueki, S. Compactness of composition operators acting on weighted Bergman-Orlicz spaces. ***Ann. Polon. Math.*** 103 (2011), no. 1, 1–13.

68. Stević, Stevo; Sharma, Ajay K. Iterated differentiation followed by composition from Bloch-type spaces to weighted BMOA spaces. ***Appl. Math. Comput.*** 218 (2011), no. 7, 3574–3580.

69. Stević, Stevo; Sharma, Ajay K. Integral-type operators from Bloch-type spaces to QK spaces. ***Abstr. Appl. Anal.*** 2011, Art. ID 698038, 16 pp.

70. Sharma, Ajay K. Products of multiplication, composition and differentiation between weighted Bergman-Nevanlinna and Bloch-type spaces. ***Turkish J. Math.*** 35 (2011), no. 2, 275–291.

71. Stević, Stevo; Sharma, Ajay K.; Bhat, Ambika Essential norm of products of multiplication composition and differentiation operators on weighted Bergman spaces. ***Appl. Math. Comput.*** 218 (2011), no. 6, 2386–2397.

72. Sharma, Anshu; Sharma, Ajay K. Carleson measures and a class of generalized integration operators on the Bergman space. ***Rocky Mountain J. Math.*** 41 (2011), no. 5, 1711–1724.

73. Sharma, Ajay K. Generalized weighted composition operators on the Bergman space. ***Demonstratio Math.*** 44 (2011), no. 2, 359–372.

74. Stević, Stevo; Sharma, Ajay K.; Sharma, S. D. Weighted composition operators from weighted Bergman spaces to weighted-type spaces on the upper half-plane. *Abstr. Appl. Anal.* 2011, Art. ID 989625, 10 pp.

75. Raj, Kuldip; Sharma, Ajay K.; Sharma, Sunil K. A sequence space defined by Musielak-Orlicz function. ***Int. J. Pure Appl. Math.*** 67 (2011), no. 4, 475–484.

76. Stević, Stevo; Sharma, Ajay K. Composition operators from the space of Cauchy transforms to Bloch and the little Bloch-type spaces on the unit disk. ***Appl. Math. Comput.*** 217 (2011), no. 24, 10187–10194.

77. Stević, Stevo; Sharma, Ajay K.; Bhat, Ambika Products of multiplication composition and differentiation operators on weighted Bergman spaces. ***Appl. Math. Comput.*** 217 (2011), no. 20, 8115–8125.

78. Stević, Stevo; Sharma, Ajay K. Weighted composition operators between growth spaces of the upper half-plane. ***Util. Math.*** 84 (2011), 265–272.

79. Raj, Kuldip; Sharma, Sunil K.; Sharma, Ajay K. Some new sequence spaces defined by a sequence of modulus functions in n-normed spaces. ***Int. J. Math. Sci. Eng. Appl.*** 5 (2011), no. 2, 385–403.

80. Stević, Stevo; Sharma, Ajay K. Essential norm of composition operators between weighted Hardy spaces. ***Appl. Math. Comput.*** 217 (2011), no. 13, 6192–6197.

81. Stević, Stevo; Sharma, Ajay K. Weighted composition operators between Hardy and growth spaces on the upper half-plane. ***Appl. Math. Comput.*** 217 (2011), no. 10, 4928–4934.

82. Raj, Kuldip; Sharma, Sunil K.; Sharma, Ajay K. Difference sequence spaces in n-normed spaces defined by Musielak-Orlicz function. ***Armen. J. Math.*** 3 (2010), no. 3, 127–141.

83. Sharma, S. D.; Sharma, Ajay K. Weighted composition operators between some spaces of analytic functions. ***Progress in analysis and its applications***, 280–286, *World Sci. Publ., Hackensack, NJ,* 2010.

84. Sharma, S. D.; Sharma, Ajay K.; Abbas, Zaheer Weighted composition operators on weighted vector-valued Bergman spaces. ***Appl. Math. Sci. (Ruse)*** 4 (2010), no. 41-44, 2049–2063.

85. Sharma, Ajay K.; Abbas, Zaheer Weighted composition operators between weighted Bergmann-Nevanlinna and Bloch-type spaces. ***Appl. Math. Sci. (Ruse)*** 4 (2010), no. 41-44, 2039–2048.

86. Sharma, Ajay K.; Sharma, Rajesh; Abbas, Zaheer Weighted composition operators between weighted Bergman-Nevanlinna and growth spaces. ***Int. J. Math. Anal. (Ruse)*** 4 (2010), no. 25-28, 1291–1298.

87. Sharma, Ajay K.; Abbas, Zaheer Composition preceded and followed by differentiation between weighted Bergman Nevanlinna and Bloch spaces. ***J. Adv. Res. Pure Math.*** 1 (2009), no. 2, 53–62.

88. Sharma, Ajay K. Volterra composition operators between weighted Bergman-Nevanlinna and Bloch-type spaces. ***Demonstratio Math.*** 42 (2009), no. 3, 607–618.

89. Sharma, Ajay K. Compact composition operators on generalized Hardy spaces. ***Georgian Math. J.*** 15 (2008), no. 4, 775–783.

90. Sharma, R.; Sharma, Ajay K. On the growth of semiconjugated entire functions. ***Int. Math. Forum*** 3 (2008), no. 41-44, 2175–2179.

91. Sharma, Ajay K.; Sharma, S. D. Compact composition operators on Hardy-Orlicz spaces. ***Mat. Vesnik*** 60 (2008), no. 3, 215–224.

92. Sharma, Ajay K.; Sharma, Som Datt Riemann-Stieltjes operators between weighted Bloch and weighted Bergman spaces. ***Int. J. Contemp. Math. Sci.*** 2 (2007), no. 13-16, 759–772.

93. Sharma, S. D.; Sharma, Ajay K.; Ahmed, Shabir Composition operators between Hardy and Bloch-type spaces of the upper half-plane. ***Bull. Korean Math. Soc.*** 44 (2007), no. 3, 475–482.

94. Sharma, Ajay K.; Sharma, Som Datt; Singh, Rekha Concrete operators on abstract functional Hilbert spaces. ***Int. J. Math. Anal. (Ruse)*** 1 (2007), no. 5-8, 339–354.

95. Sharma, Ajay K.; Sharma, Som Datt; Kumar, Sanjay Weighted composition followed by differentiation between Bergman spaces. ***Int. Math. Forum*** 2 (2007), no. 33-36, 1647–1656.

96. Sharma, Ajay K.; Kumari, Rekha Weighted composition operators between Bergman and Bloch spaces. ***Commun. Korean Math. Soc.*** 22 (2007), no. 3, 373–382.

97. Sharma, Ajay K.; Kumar, Vijay Weighted composition operators between Bergman-type spaces and weighted Banach spaces. ***Int. J. Math. Anal. (Ruse)*** 1 (2007), no. 9-12, 471–478.

98. Sharma, Ajay K.; Sharma, S. D. Composition operators on weighted Bergman-Orlicz spaces. ***Bull. Austral. Math. Soc.*** 75 (2007), no. 2, 273–287.

99. Sharma, Somdatt D.; Sharma, Ajay K. Composition operators on the weighted Bergman-Nevanlinna classes. *Proceedings of the First Advanced Course in* ***Operator Theory and Complex Analysis****,* 123–132, *Univ. Sevilla Secr. Publ., Seville,* 2006.

100. Sharma, Ajay K.; Sharma, Som Datt Weighted composition operators between Bergman-type spaces. ***Commun. Korean Math. Soc.*** 21 (2006), no. 3, 465–474.

101. Sharma, S. D.; Sharma, Ajay K.; Ahmed, Shabir Carleson measures in a vector-valued Bergman space. ***J. Anal. Appl.*** 4 (2006), no. 1, 65–76.

Selected Citations

1. **Stević, Stevo; Sharma, Ajay K.; Bhat, Ambika Products of multiplication composition and differentiation operators on weighted Bergman spaces. *Appl. Math. Comput.* 217 (2011), no. 20, 8115–8125**.

a) **Poongothai, K.; Youvaraj, G. P.;** Product-type operators on Banach spaces of analytic functions on the upper half-plane. ***Complex Var. Elliptic Equ.*** 68 (2023), no. 6, 878–891.

b) **Zhang, Qin**; **Guo, Zhitao** Generalized Stević-Sharma type operators from H∞ space into Bloch-type spaces. ***Math. Inequal. Appl.*** 26 (2023), no. 2, 531–543.

c) **Liu, Junming**; **Ponnusamy, Saminathan**; Xie, Huayou Complex symmetric weighted composition-differentiation operators. ***Linear Multilinear Algebra*** 71 (2023), no. 5, 737–755.

d) **Poongothai, K.**; **Youvaraj, G. P.** Product-type operators on a class of Banach spaces of analytic functions into μ-Bloch spaces on the unit ball in Cn. ***Adv. Oper. Theory*** 8 (2023), no. 2, Paper No. 36, 23 pp.

e) **Hu, Qinghua**; **Hu, Lian**; **Li, Songxiao** On a Stević-Sharma type operator from weighted-type spaces into Bloch-type spaces. ***Math. Inequal. Appl.*** 26 (2023), no. 1, 205–232.

f) **Guo, Zhitao** On an extension of Stević-Sharma operator from weighted Bergman-Orlicz space to weighted-type space on the unit ball. ***Complex Anal. Oper. Theory*** 17 (2023), no. 1, Paper No. 15, 21 pp.

g) **Huang, Cheng-shi**; **Jiang, Zhi-jie** Product-type operators from weighted Bergman-Orlicz spaces to weighted-type spaces on the unit ball. ***J. Math. Anal. Appl.*** 519 (2023), no. 1, Paper No. 126739, 27 pp.

h) **Stević, Stevo**; **Huang, Cheng-Shi**; **Jiang, Zhi-Jie** Sum of some product-type operators from Hardy spaces to weighted-type spaces on the unit ball. ***Math. Methods Appl. Sci.*** 45 (2022), no. 17, 11581–11600.

i) **Nasresfahani, Sepideh**; **Abbasi, Ebrahim** Product-type operators on weak vector valued α-Besov spaces. ***Turkish J. Math.*** 46 (2022), no. 4, 1210–1223.

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4. Difference of composition operators, National conference on Topology algebra and analysis, 18-19, Feb. 2016, Department of Mathematics, Govt. Gandhi Memorial Science college, Jammu

5. Weighted differentiation composition operators, The 24th Annual conference of Jammu Mathematical Society, May 14-16, 2015, Jammu Mathematical Society, University of Jammu

6. On approximation numbers of composition operators, 2nd National conference in mathematics on recent trends in algebra and analysis, March 25-26, 2015, G.G. M. Science College, Jammu

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8. Composition operators on Bergman spaces, National conference in mathematics On analysis and its applications, March 27, 2014, G.G. M. Science College, Jammu

9. Generalized weighted composition operators from $QK_{(p,q)}$ spaces to Bloch type spaces, Recent trends in algebra and analysis with applications, Feb. 12-14, 2014, Aligarh Muslim University, Aligarh, India

10. A perspective on the status of Mathematics in J&K, Mathematical festival-2013, Higher Education Department, 13 Dec. 2013, Higher Education Department J&K Govt. MAM College JammuComposition operators on Bergman Privalov spaces to Zygmund spaces.

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13. Differences of composition operators between Hardy and Bergman spaces, The 21st Annual conference of Jammu Mathematical Society, Feb. 25-27, 2011, Jammu Mathematical Society, University of Jammu, Jammu

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