Full List of Publications:

139. **Akhilesh Prasad** and P. Moond, Stockwell Transform Based on the Quadratic-Phase Hankel Transform, *Integral Transforms Spec. Funct.*, **DOI:** 10.1080/10652469.2026.2703798. **(Taylor & Francis)/SCIE/Q2**.

138. S. Ranjan, **Akhilesh Prasad** and U. K. Mandal, Sobolev-type spaces related to the μth order Mehler-Fock transform, *J. Pseudo-Differ. Oper. Appl.,* **17** (2), Article number: 31, pp. 1-18, (2026). **(Springer-Birkhauser)/SCIE/Q1**.

137. R. K. Verma and **Akhilesh Prasad**, The infinite order integro-differential operators associated with Dunkl operator on $\mathbb{R}$, *Complex Anal. Oper. Theory*, **20** (3), Article number: 76, pp. 1-18, (2026). **(Springer-Birkhauser)/SCIE/Q2**.

136. S. Ranjan, **Akhilesh Prasad** and U. K. Mandal, Wavelet transform via μth order Mehler-Fock transform, *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.,* DOI: 10.1007/s40010-026-01127-w, (2026). **(Springer)/SCIE/Q3**.

135. **Akhilesh Prasad** and A. Kumar, Weyl transform associated with linear canonical wavelets, *J. Anal.*, **DOI:** 10.1007/s41478-026-01079-9, (2026). **(Springer) / ESCI/Q1**.

134. J. S. Maan and **Akhilesh Prasad**, The Mehler–Fock–Clifford Transform Framework for Parseval–Goldstein and Abelian Theorems in Weighted Lebesgue Spaces, *Acta Sci. Math. (Szeged)*, **DOI:** 10.1007/s44146-026-00230-z (2026). **(Springer) /ESCI/Q3**.

133. R. K. Verma and **Akhilesh Prasad**, On the Abelian Properties of Dunkl Transforms: A Distributional Approach, *Asian-Eur. J. Math.*, **DOI:** 10.1142/S1793557125501578 (2025). **(World Scientific)/ESCI/Q3**.

132. **Akhilesh Prasad**, and Raj Kumar, Multiresolution Analysis and Orthonormal Linear Canonical Wavelets in Generalized Sobolev Spaces, *J. Pseudo-Differ. Oper. Appl.*, **16** (4), Article number: 86, pp. 1-34, (2025). **(Springer-Birkhauser)/SCIE/Q1**.

131. **Akhilesh Prasad**, S. Ranjan, An operational calculus of μ^{th} order Mehler-Fock transform, *Complex Anal. Oper. Theory*, **19** (2), Article number: 41, pp. 1-33, (2025). **(Springer-Birkhauser)/SCIE/Q2**.

130. R. K. Verma and **Akhilesh Prasad**, Besov-type spaces associated with Dunkl wavelet transform on $\mathbb{R}$, *Math. Methods Appl. Sci.*, **48** (8), pp. 8985-8993, (2025). **(Wiley)/SCIE/Q1**.

129. **Akhilesh Prasad**, U. K. Mandal and S. Ranjan, The μ^{th} order Mehler-Fock transform and allied pseudo-differential operator, *Integral Transforms Spec. Funct.,* **36** (3), pp. 163-175, (2025). **(Taylor & Francis)/SCIE/Q2**.

128. A. K. Gupt and **Akhilesh Prasad**, The Heat Kernel in the Framework of the Lebedev-Skalskaya Transform, *Appl. Anal.,* **104** (8), pp. 1597-1609 (2025). **(Taylor & Francis)/SCIE/Q2**

127. C. Roy, T. Kumar, **Akhilesh Prasad**, and G. K. Jha, Pseudo-differential operators associated with a pair of quadratic-phase Hankel transformations, *J. Pseudo-Differ. Oper. Appl.*, **16** (1), Article number: 05, pp. 1-26, (2025). **(Springer-Birkhauser)/ SCIE/Q1**.

126. R. K. Verma and **Akhilesh Prasad**, SG pseudo-differential operators in Dunkl setting, *Georgian Math. J.,* **32** (3), pp. 501-513, (2025). **(De Gruyter)/ SCIE/Q2**.

125. C. Roy, T. Kumar, **Akhilesh Prasad**, and G. K. Jha, The wavelet transformation associated with quadratic-phase Hankel transform, *Natl. Acad. Sci. Lett.* **48** (1), pp. 65-71, (2025). **(Springer) SCIE/Q3**.

124. C. Roy, **Akhilesh Prasad** and G. K. Jha, The wave packet transformation in the framework of quadratic-phase Hankel transformation, *Int. J. Appl. Comput. Math.* **11** (1), Article number: 02, pp. 1-12, (2025). **(Springer) / SCOPUS.**

123. K. L. Mahato, S. Arya and **Akhilesh Prasad**, Pseudo-differential operators associated with Gyrator transform, *Hacet. J. Math. Stat.*, **54** (4), 1426-1441, (2025). **(DergiPark)/ SCIE/Q2**.

122. S. Varghese, **Akhilesh Prasad** and M. Kundu, Properties and applications of quaternion quadratic phase Fourier transforms, *J. Pseudo-Differ. Oper. Appl.*, **15** (4), Article number: 84, pp. 1-26 (2024). **(Springer-Birkhauser) / SCIE/Q1**.

121. **Akhilesh Prasad** and M. Kundu, Spectrum of quaternion signals associated with quaternion linear canonical transform, *J. Franklin Inst.*, **361** (2), pp. 764-775 (2024). **(Elsevier)/SCIE/Q2**.

120. A. K. Gupt, U. K. Mandal and **Akhilesh Prasad**, Lebedev-Skalskaya transform related continuous wavelet transform, *Results Math.*, **79** (3), Article number: 99, pp. 1-21 (2024). **(Springer-Birkhauser)/SCIE/Q2**.

119. **Akhilesh Prasad**, R. K. Verma and S. K. Verma, Wavelet transform associated with Dunkl transform, *Integral Transforms Spec. Funct.,* **35** (9), pp. 481-496, (2024). **(Taylor & Francis)/ SCIE/Q2**.

118. J. S. Maan and **Akhilesh Prasad**, A pair of pseudo-differential operators involving index Whittaker transform in $L_2^a(\mathbb{R}_+; m_a(x)dx)$, *Acta Math. Sin. (Engl. Ser.)*, **40** (6), pp. 1420–1430, (2024). **(Springer)/SCIE/Q2**.

117. J. S. Maan and **Akhilesh Prasad**, Wave packet transform and wavelet convolution product involving index Whittaker transform, *Ramanujan J.*, **64** (1), pp. 19-36, (2024). **(Springer)/SCIE/Q2**.

116. J. S. Maan and **Akhilesh Prasad**, Index Whittaker transform for Boehmians, *Indian J. Pure Appl. Math.*, **55** (2), pp. 489-500-315 (2024). **(Springer)/ INSA/SCIE/Q4**.

115. A. K. Gupt, **Akhilesh Prasad** and U. K. Mandal, Wave packet transform in the framework of Lebedev -Skalskaya transforms, *Acta Sci. Math. (Szeged)*, **90** (1-2), pp. 73-89, (2024). **(Springer)/ ESCI/Q3**.

114. A. K. Gupt and **Akhilesh Prasad**, The infinite-order integro-differential operator related to Lebedev-Skalskaya transform, *J. Pseudo-Differ. Oper. Appl.*, **15** (2), Article number: 21, pp. 1-16 (2024). **(Springer-Birkhauser) / SCIE/Q1**.

113. **Akhilesh Prasad** and R. K. Verma, Weyl transforms associated with Dunkl wavelet transform, *Complex Anal. Oper. Theory*, **17** (7), Article number: 110, pp. 1-17, (2023). **(Springer-Birkhauser)/SCIE/Q2**.

112. U. K. Mandal and **Akhilesh Prasad**, The generalized Kontorovich-Lebedev transform and associated operators, *Rev. R. Acad. Cienc. Exactas Fis. Nat. Ser. A Mat.* RACSAM, **117** (3), Article: 126, pp. 1-15, (2023). **(Springer)/ SCIE/Q1**.

111. M. Kundu and **Akhilesh Prasad**, Pseudo-differential operator in quaternion space, *Math. Methods Appl. Sci.*, **46** (9), pp. 10749-10766, (2023). **(Wiley)/SCIE/Q1**.

110. **Akhilesh Prasad** and M. Kundu, Uncertainty principles and applications of quaternion windowed linear canonical transform, *Optik*, **272** (1), Article number: 170220 (2023). **(Elsevier)/SCIE/Q2**.

109. **Akhilesh Prasad** and A. Kumar, Canonical potential and L^p-Sobolev space involving linear canonical Fourier transform, *Integral Transforms Spec. Funct.* **34** (4), pp. 295-315 (2023). **(Taylor & Francis)/SCIE/Q2**.

108. A. K. Gupt, **Akhilesh Prasad** and U. K. Mandal, The fractional maximal and Riesz potential operators involving the Lebedev-Skalskaya transform, *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.*, **93** (4), pp. 613-620, (2023). **(Springer) / SCIE/Q3**.

107. A. Kumar, **Akhilesh Prasad** and P. Jain, The Weyl correspondence in the linear canonical transform domain, *Filomat,*, **37** (22), pp. 7431-7444, (2023). **(SCIE)/Q2**

106. P. B. Sharma and **Akhilesh Prasad**, Abelian theorems for quadratic-phase Fourier wavelet transform, *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.*, **93** (1), pp. 75-83, (2023). **(Springer)SCIE/Q3**.

105. U. K. Mandal and **Akhilesh Prasad,** A pair of Barut-Girardello type transforms and allied pseudo-differential operators, *Rend. Circ. Mat. Palermo.*, **72** (1), (2023). **(Springer) / ESCI/Q2**.

104. U. K. Mandal, M. Dziri and **Akhilesh Prasad**, Laplace transform type multipliers for Kontorovich-Lebedev transform, *Asian-Eur. J. Math.*, **16** (4), Article number: 2350060, (2023). **(World Scientific) / ESCI/Q3**.

103. S. K. Verma and **Akhilesh Prasad**, Composition and commutator of pseudo-differential operators in the framework of zero-order Mehler-Fock transform domain, *J. Anal.*, **31** (3),pp. 1753-1769, (2023). **(Springer) / ESCI/Q1**.

102. U. K. Mandal, **Akhilesh Prasad** and A. K. Gupt, Reverse convolution inequalities for Lebedev-Skalskaya transforms, *Forum Math.*, **34** (4), pp. 1095-1107 (2022). **(De Gruyter)/SCIE/Q2**.

101. A. Kumar and **Akhilesh Prasad**, Wigner-Ville distribution function in the framework of linear canonical transform, *J. Pseudo-Differ. Oper. Appl.*, **13** (3), Article number: 38, pp. 1-17 (2022). **(Springer-Birkhauser)/SCIE/Q1**.

100. M. Kundu and **Akhilesh Prasad**, Uncertainty principles associated with quaternion linear canonical transform and its estimates, *Math. Methods Appl. Sci.*, **45** (8), pp. 4772-4790, (2022). **(Wiley)/SCIE/Q1**.

99. M. Kundu and **Akhilesh Prasad**, Convolution, correlation and spectrums of functions associated with linear canonical transform, *Optik*, **249** (1) Article ID: 168256 (2022). **(Elsevier)/ SCIE/Q2**.

98. J. S. Maan and **Akhilesh Prasad,** Abelian theorems in the framework of distributional index Whittaker transform, *Math. Commun.* **27** (1), pp. 1-9, (2022). **SCIE/Q1**.

97. U. K. Mandal and **Akhilesh Prasad**, Lebedev-Skalskaya transforms and allied operators on certain function spaces, *Integral Transforms Spec. Funct.* **33** (4), pp. 320-340, (2022). **(Taylor & Francis)/SCIE/Q2**.

96. **Akhilesh Prasad** and Manoj K. Singh, Product and commutators of pseudo-differential operators involving Fourier-Jacobi transform, *Comm. Math. Stat.* **10** (1), pp. 67-84 (2022). **(Springer)/SCIE/Q2**

95. **Akhilesh Prasad** and Z. A. Ansari, The wave packet transform in the framework of linear canonical transform, *Int. J. Wavelets Multiresolut. Inf. Process.*, **20** (2), Article No. 1500521, (16 pp.) (2022). **(World Scientific)/SCIE/Q4**.

94. J. S. Maan and **Akhilesh Prasad**, Weyl operator associated with index Whittaker transform, *J. Pseudo-Differ. Oper. Appl.*, **13** (3), Article number: 27, (2022). **(Springer-Birkhauser) / SCIE/Q4**.

93. P. B. Sharma and **Akhilesh Prasad**, Convolution and product theorems for the quadratic-phase Fourier transform, *Georgian Math. J.*, **29** (4), pp. 595-602. **(De Gruyter)/SCIE/Q2**.

92. M. Kundu, **Akhilesh Prasad,** and R. K. Verma, Multidimensional linear canonical transform and convolution, *J. Ramanujan Math. Soc.* **37** (2), pp. 159-171, (2022). **SCIE/Q4**.

91. U. K. Mandal and **Akhilesh Prasad**, Legendre functions, related Lebedev-Skalskaya transforms pairs and associated operators, *Adv. Oper. Theory*, **7** (4), Article number: 60, (2022). **(Springer-Birkhauser) / ESCI/Q2**.

90. S. K. Verma and **Akhilesh Prasad**, Product of pseudo-differential operators associated with zero order Mehler-Fock transform, *Int. J. Appl. Comput. Math.* **8** (5), Article number: 224, (2022). **(Springer)/SCOPUS**.

89. U. K. Mandal and **Akhilesh Prasad**, Wavelet transform and its composition in the framework of Barut-Girardello transform, *J. Anal.*, **30** (4), pp. 1799-1815, (2022). **(Springer)/ESCI/Q1**.

88. U. K. Mandal and **Akhilesh Prasad**, The Y transforms and allied pseudo-differential operators, *Adv. Oper. Theory*, **7** (3), Article number: 30, (2022). **(Springer-Birkhauser) / ESCI/Q2**.

87. **Akhilesh Prasad** and P. B. Sharma, Pseudo-differential operator associated with quadratic-phase Fourier transform, *Bol. Soc. Mat. Mex.,* **28** (2), Article number: 37, (2022) **(Springer-Birkhauser) / ESCI/Q2**.

86. P. B. Sharma and **Akhilesh Prasad**, Composition of quadratic-phase Fourier wavelet transform, *Int. J. Appl. Comput. Math.* **8** (3), Article number: 90, (2022). **(Springer)/SCOPUS**.

85. **Akhilesh Prasad,** J. S. Maan and S. K. Verma, Wavelet transforms associated with the index Whittaker transform, *Math. Methods Appl. Sci.*, **44** (13), pp. 10734-10752, (2021). **(Wiley)/SCIE/Q1**.

84. Z. A. Ansari and **Akhilesh Prasad**, Abelian theorems and Calderón's reproducing formula for linear canonical wavelet transform, *J. Pseudo-Differ. Oper. Appl.*, **12** (1), Article: 4, (2021). **(Springer-Birkhauser)/SCIE/Q1**.

83. U. K. Mandal and **Akhilesh Prasad**, Lebedev-Skalskaya transforms on certain function spaces and associated pseudo-differential operators, *Integral Transforms Spec. Funct.,* **32** (2), pp. 113-133, (2021), **(Taylor & Francis) / SCIE /Q2**.

82. **Akhilesh Prasad,** and U. K. Mandal, The Kontorovich-Lebedev-Clifford transform, *Filomat.* **34** (14), pp. 4811-4824 (2021). **SCIE/Q2**.

81. T. Kumar and **Akhilesh Prasad,** Pseudo-differential operators involving linear canonical Hankel transformations on some ultra-differentiable function spaces, *Math. Methods Appl. Sci.*, **44** (6), pp. 4686-4700, (2021). **(Wiley)/SCIE/Q1**.

80. **Akhilesh Prasad** and M. Kundu, Linear canonical wave packet transform, *Integral Transforms Spec. Funct.*, **32** (11), pp. 893-911, (2021), **(Taylor & Francis)/SCIE/Q2**.

79. U. K. Mandal, S. K. Verma and **Akhilesh Prasad**, Composition of wavelet transform and wave packet transform involving Kontorovich-Lebedev transform, *Filomat.* **35**(1), pp. 47-60, (2021). **SCIE/Q2**.

78. **Akhilesh Prasad,** S. K. Verma and U. K. Mandal, Variation diminishing convolution kernels associated with fractional Hankel-type transform, *A*fr. Mat., **32** (7-8), 1503-1517, (2021). **(Springer) / ESCI/Q2**.

77. U. K. Mandal and **Akhilesh Prasad**, A pair of Kontorovich-Lebedev type transforms and associated pseudo-differential operators, *Ann. Math. Sci. Appl.* **6**(1), 87-118, (2021). **Int. Press/ESCI/Q4**.

76. **Akhilesh Prasad**, Z. A. Ansari and P. Jain, Pseudo-differential operator in the framework of linear canonical transform domain, *Asian-Eur. J. Math.,* **14** (7), Article ID: 2150117, (2021), **(World Scientific) / ESCI/Q3**.

75. **Akhilesh Prasad**, T. Kumar and A. Kumar, Convolution for a pair of quadratic-phase Hankel transforms, *Rev. R. Acad. Cienc. Exactas Fis. Nat. Ser. A Mat.* RACSAM, **114** (3), Article: 40, pp. 1-15, (2020). **(Springer) / SCIE/Q1.**

74. S. K. Verma and **Akhilesh Prasad**, Characterization of Weyl operator in terms of Mehler-Fock transform, *Math. Methods Appl. Sci.*, **43** (15), pp. 9119-9128, (2020). **(Wiley)/ SCIE/Q1**.

73. **Akhilesh Prasad** and Z. A. Ansari, The composition of linear canonical wavelet transforms on generalized function spaces, *Filomat,* **34** (12), pp. 2457-2469, (2020). **SCIE/Q2**.

72. **Akhilesh Prasad** and P. B. Sharma, The Quadratic-Phase Fourier Wavelet Transform, *Math. Methods Appl. Sci.*, **43** (4), pp. 1953-1969, (2020). **(Wiley)/ SCIE/Q1**.

71. P. Jain, R. Kumar and **Akhilesh Prasad**, Generalized Schwartz type spaces and LCT based pseudo-differential operator, *Trans. A. Razmadze Math. Inst.*, **174** (1), pp. 93-106, (2020). **(ESCI)/Q4**.

70. **Akhilesh Prasad** and P. K. Maurya, The fractional Hankel-type integral wavelet packet transformation, *J. Anal.*, **28** (1), 225-234 (2020) **(Springer)ESCI/Q1**.

69. **Akhilesh Prasad** and Z. A. Ansari, Approximation of linear canonical wavelet transform on the generalized Sobolev spaces, *J. Pseudo-Differ. Oper. Appl.* **10** (4), pp. 855-881, (2019). **(Springer-Birkhäuser) / SCIE/Q2**.

68. **Akhilesh Prasad,** P. Kumar and T. Kumar, Product of continuous fractional wave packet transforms, *Int. J. Wavelets Multiresolut. Inf. Process.*, **17** (4), Article ID: 1950021 (09 pages), (2019). **(World Scientific)/ SCIE/Q4**.

67. **Akhilesh Prasad,** U. K. Mandal and S. K. Verma, Zero-order Mehler-Fock transform and Sobolev- type space, *Math. Inequal. Appl.*, **22** (2), pp. 761-775. (2019). **(SCIE)/Q2**.

66. **Akhilesh Prasad** and S. K. Verma, Heat kernel in the framework of zero order Mehler-Fock transform, *Complex Anal. Oper. Theory,* **13** (7), pp. 3235-3249. (2019), **(Springer-Birkhäuser) / SCIE/Q2**.

65. **Akhilesh Prasad** and T. Kumar, A pair of linear canonical Hankel transformations of random order, *Mediterr. J. Math.,* **16** (6) Article 150 (18 pages), (2019), **(Springer-Birkhäuser) / SCIE/Q1**.

64. **Akhilesh Prasad** and Z. A. Ansari, Continuous wavelet transform involving linear canonical transform, *Natl. Acad. Sci. Lett.* **42** (4), pp. 337-344. (2019), **(Springer)/ SCIE/Q3**.

63. **Akhilesh Prasad** and S. K. Verma, The Mehler-Fock-Clifford transform and pseudo-differential operator on function spaces, *Filomat*, **33** (8), pp. 2457-2469, (2019). **(SCIE)/Q2**.

62. **Akhilesh Prasad** and Manoj K Singh, Composition of pseudo-differential operators associated with Jacobi differential operator, *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.*, **89** (3), pp. 509-516, (2019). **(Springer)/SCIE/Q3**.

61. T. Kumar and **Akhilesh Prasad**, Convolution with the linear canonical Hankel transformation, *Bol. Soc. Mat. Mex.*, **25** (1), pp. 195-213, (2019), **(Springer-Birkhäuser)/ESCI/Q2**.

60. **Akhilesh Prasad** and U. K. Mandal, Two versions of pseudo-differential operators involving Kontorovich-Lebedev transform in $L^2(\mathbb{R}_+; x^{-1}dx)$, *Forum Math.*, **30** (1), pp. 31-42, (2018). **(De Gruyter)/SCIE/Q2**.

59. **Akhilesh Prasad** and T. Kumar, A pair of linear canonical Hankel transformations and associated pseudo-differential operators, *Appl. Anal.*, **97** (15), pp. 2727-2742, (2018). **(Taylor & Francis)/SCIE/Q2**.

58. **Akhilesh Prasad** and U. K. Mandal, The Kontorovich-Lebedev transform and its associated pseudo-differential operator, *Math. Methods Appl. Sci.*, **41** (1), pp. 46-57, (2018). **(Wiley)/SCIE/Q1**.

57. **Akhilesh Prasad**, S. K. Verma and U. K. Mandal, The convolution for zero order Mehler-Fock transform and pseudo-differential operator, *Integral Transforms Spec. Funct.*, **29** (3), pp. 189-206 (2018). **(Taylor & Francis)/SCIE/Q2**.

56. **Akhilesh Prasad** and S. K. Verma, Continuous wavelet transform associated with zero order Mehler-Fock transform and its composition, *Int. J. Wavelets Multiresolut. Inf. Process.*, **16** (6), Article ID: 1850050 (16 pages), (2018). **(World Scientific)/SCIE/Q4**.

55. **Akhilesh Prasad** and U. K. Mandal, The Kontorovich-Lebedev transform and Sobolev type spaces, *Complex Anal. Oper. Theory*, **12** (3), pp. 669-681, (2018). **(Springer-Birkhäuser)/SCIE/Q2**.

54. **Akhilesh Prasad** and K. Mahato, On the Sobolev boundedness results of the product of pseudo-differential operators involving a couple of fractional Hankel transforms, *Acta Math. Sin. (Engl. Ser.)*, **34** (2), pp. 221-232, (2018). **(Springer)/SCIE/Q2**.

53. **Akhilesh Prasad** and T. Kumar, Canonical Hankel wavelet transformation and Calderón's reproducing formula, *Filomat*, **32** (8), 2735-2743, (2018). **(SCIE)/Q2**.

52. D. C. Mishra, R. K. Sharma, S. Suman and **Akhilesh Prasad**, Multi-layer security of color image based on chaotic system combined with RP2DFRFT and Arnold Transform, *J. Info. Sec. Appl.* **37**(6), pp. 65-90, (2017), **(Elsevier)/ SCIE/Q2**.

51. **Akhilesh Prasad** and U. K. Mandal, Boundedness of pseudo-differential operators involving Kontorovich-Lebedev transform, *Integral Transforms Spec. Funct.*, **28** (4), pp. 300-314, (2017). **(Taylor & Francis)/SCIE/Q2**

50. **Akhilesh Prasad** and U. K. Mandal, Wavelet transforms associated with the Kontorovich-Lebedev transform. *Int. J. Wavelets Multiresolut. Inf. Process.*, **15** (2), Article ID: 1750011 (17 pages) (2017). **(World Scientific)/SCIE/Q4**.

49. **Akhilesh Prasad** and Manoj. K. Singh, Pseudo-differential operators involving fractional Fourier cosine (sine) transform, *Filomat*, **31** (6), pp. 1791-1801, (2017) **(SCIE)/Q2**.

48. **Akhilesh Prasad** and P Kumar, Abelian theorems for fractional wavelet transform, *Asian-Eur. J. Math.*, **10** (1), Article ID: 1750019 (15 pages), (2017). **(World Scientific)/ESCI/Q3**.

47. **Akhilesh Prasad** and Manoj K. Singh, Integral representations of pseudo-differential operators associated with the Jacobi differential operator, *Rend. Circ. Mat. Palermo.*, **66** (3), pp. 325-336, (2017). **(Springer)/ESCI/Q2**.

46. **Akhilesh Prasad** and P. K. Maurya, The wavelet transformation involving the fractional powers of Hankel-type integral transformation, *Afr. Mat.,* **28** (1-2), pp. 189-198, (2017). **(Springer)/ESCI/Q2**.

45. **Akhilesh Prasad** and P. K. Maurya, A couple of fractional powers of Hankel-type integral transformations and pseudo-differential operators, *SeMA J.* **74** (2), pp. 181-211, (2017)**(Springer)/SCOPUS**.

44. **Akhilesh Prasad** and U. K. Mandal, Composition of pseudo-differential operators associated with Kontorovich-Lebedev transform, *Integral Transforms Spec. Funct.*, **27** (11), pp. 878-892, (2016). **(Taylor & Francis)/SCIE/Q2**.

43. **Akhilesh Prasad** and P. Kumar, Composition of pseudo-differential operators associated with fractional Hankel-Clifford integral transformations, *Appl. Anal.* **95** (8), pp. 1792-1807, (2016). **(Taylor & Francis)/SCIE/Q2**.

42. **Akhilesh Prasad** and P. Kumar, The continuous fractional wavelet transform on a generalized Sobolev space, *Int. J. Wavelets Multiresolut. Inf. Process.*, **14** (6), Article ID: 1650046 (10 pages), (2016) **(World Scientific)/SCIE/Q4**.

41. **Akhilesh Prasad** and S. Kumar, Fractional wavelet packet transformations involving Hankel-Clifford integral transformations, *Acta Math. Sin. (Engl. Ser.)* **32** (7), pp. 783-796, (2016). **(Springer)/SCIE/Q2**.

40. **Akhilesh Prasad** and P. Kumar, Pseudo-differential operator associated with fractional Fourier Transform, *Math. Commun.* **21** (1), pp. 115-126, (2016). **(SCIE)/Q1**.

39. **Akhilesh Prasad** and P. Kumar, Composition of continuous fractional wavelet transforms, *Natl. Acad. Sci. Lett.* **39** (2), pp. 115-120, (2016). **(Springer) /SCIE/Q3**.

38. **Akhilesh Prasad** and S. Kumar, A pair of fractional powers of Hankel-Clifford transformations of arbitrary order, *Filomat,* **30** (12), pp. 3303-3316, (2016) **(SCIE)/Q2**.

37. **Akhilesh Prasad** and P. Kumar, Fractional continuous wavelet transform on some function spaces., *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.,* **86** (1), pp. 57-64, (2016). **(Springer)/SCIE/Q3**.

36. **Akhilesh Prasad** and K. L. Mahato, Two versions of fractional powers of Hankel-type transformations and pseudo-differential operators, *Rend. Circ. Mat. Palermo.* **65** (2), pp. 209-241, (2016). **(Springer)/ESCI/Q2**.

35. **Akhilesh Prasad** and P. K. Maurya, A couple of fractional powers of Hankel-type integral transformations of arbitrary order, *Boll. Unione Mat. Ital.* **9** (3) pp. 323-339, (2016). **(Springer)/ESCI/Q2**.

34. **Akhilesh Prasad** and P. K. Maurya, A pair of pseudo-differential operators involving Hankel-type integral transformations, *J. Pseudo-Differ. Oper. Appl.*, **6**(1), pp. 135-151, (2015). **(Springer-Birkhäuser)/SCIE/Q1**.

33. **Akhilesh Prasad** and S. Kumar, Wavelet transformation associated with second Hankel-Clifford transformation, *Natl. Acad. Sci. Lett.*, **38** (6), pp. 493-496, (2015). **(Springer)/SCIE/Q3**.

32. **Akhilesh Prasad** and P. Kumar, The continuous fractional wavelet transform on generalized weighted Sobolev spaces, *Asian-Eur. J. Math.*, **8** (3), Article ID: 1550054 (11 pages), (2015). **(World Scientific)/ESCI/Q3**.

31. **Akhilesh Prasad** and K. Mahato, Two variants fractional powers of Hankel integral transforms of arbitrary order, *Ann. Univ. Ferrara,* **61** (2), pp. 309-331, (2015). **(Springer)/Scopus**.

30. **Akhilesh Prasad** and K. Mahato, The fractional Hankel wavelet transformation, *Asian-Eur. J. Math.*, **8**(2), Article ID: 1550030 (11 pages), (2015). **(World Scientific)/ESCI/Q3**.

29. **Akhilesh Prasad** and A. Mahato, Continuous fractional power Bessel wavelet transform on Zemanian type spaces, *J. Indian Math. Soc.* **82** (1-2), pp 129-146, (2015). **(Scopus)**.

28. **Akhilesh Prasad** and Manoj K. Singh, Pseudo-differential operators associated with the Jacobi differential operator and Fourier-cosine wavelet transform, *Asian-Eur. J. Math.*, **8**(1), Article ID: 1550010 (16 pages), (2015), **(World Scientific)/ESCI/Q3**.

27. **Akhilesh Prasad**, S. Manna, A. Mahato and V. K. Singh, The generalized continuous wavelet transform associated with fractional Fourier transform, *J. Comput. Appl. Math.* 259, pp. 660-671, (2014). **(Elsevier)/SCIE/Q1**.

26. **Akhilesh Prasad** and V. K. Singh, Boundedness of pseudo-differential operator associated with fractional Hankel transform, *Fract. Cal. Appl. Anal.* **17** (1), pp. 154-170, (2014). **(Springer/De Gruyter)/SCIE//Q1**.

25. **Akhilesh Prasad** and S. Kumar, Two variants of fractional powers of Hankel-Clifford transformations and pseudo-differential operators, *J. Pseudo-Differ. Oper. Appl.* **5** (3), pp. 411-454, (2014). **(Springer-Birkhäuser)/SCIE/Q1**.

24. **Akhilesh Prasad** and M. Kumar, Boundedness of pseudo-differential operator associated with fractional Fourier transform, *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.*, **84** (4), pp. 449-454, (2014). **(Springer)/SCIE/Q3**.

23. **Akhilesh Prasad** and A. Shekhar, Sobolev type spaces associated with fractional Fourier transform, *Bull. Cal. Math. Soc.*, **106** (1), pp 1-12, (2014).

22. **Akhilesh Prasad** and A. Mahato, The fractional wavelet transform on spaces of type W, *Integral Transforms Spec. Funct.*, **24** (3), pp. 239-250, (2013). **(Taylor & Francis)/SCIE/Q2**.

21. **Akhilesh Prasad** and S. Kumar, Hankel-Clifford transformations on some ultradifferentiable function spaces and pseudo-differential operators, *J. Pseudo-Differ. Oper. Appl.* **4** (4), pp. 551-567, (2013). **(Springer-Birkhäuser)/ SCIE/Q1**.

20. **Akhilesh Prasad**, A. Mahato, V. K. Singh and M. M. Dixit, The continuous fractional Bessel wavelet transformation, *Bound. Value Probl.*, 2013: 40 (16 pages), (2013). **(Springer)/SCIE/Q1**.

19. **Akhilesh Prasad**, A. Mahato and M.M. Dixit, Continuity of Bessel wavelet transform on certain Beurling-type function spaces, *J. Inequal. Appl.*, 2013: 29, (9 pages), (2013). **(Springer)/SCIE/Q1**.

18. **Akhilesh Prasad** and V. K. Singh, Pseudo-differential operators associated to a pair of Hankel-Clifford transformations on certain Beurling type function spaces, *Asian-Eur. J. Math.*, **6** (3), Article ID: 1350039 (22 pages), (2013). **(World Scientific)/ESCI/Q3**.

17. **Akhilesh Prasad** and V. K. Singh, The fractional Hankel transform of certain tempered distributions and pseudo-differential operators, *Ann. Univ. Ferrara*, **59** (1), pp. 141-158, (2013). **(Springer)/Scopus**.

16. **Akhilesh Prasad**, V. K. Singh and M. M. Dixit, Pseudo-differential operator involving Hankel-Clifford transformation, *Asian-Eur. J. Math.*, **5** (3), Article ID: 1250040 (15 pages), (2012). **(World Scientific)/ESCI/Q3**.

15. **Akhilesh Prasad**, Manoj K. Singh and M. Kumar, The continuous fractional wave packet transform, *AIP Conf. Proc.* 1558, pp. 856-859 (2013). **(AIP)/Scopus**.

14. **Akhilesh Prasad**, A. Mahato, The fractional wavelet transform on spaces of type S., *Integral Transforms Spec. Funct.*, **23** (4), pp. 237-249, (2012). **(Taylor & Francis)/SCIE/Q2**.

13. R. S. Pathak, **Akhilesh Prasad** and M. Kumar, Fractional Fourier transform of tempered distributions and generalized pseudo-differential operator, *J. Pseudo-Differ. Oper. Appl.* **3** (2), pp 239-254, (2012). **(Springer-Birkhäuser)/ SCIE/Q1**.

12. **Akhilesh Prasad**, M. Kumar and D. R. Chaudhary, Color image encoding using fractional Fourier transformation associated with wavelet transformation, *Opt. Commun.* **285**(6), pp. 1005-1009, (2012), **(Elsevier)/SCIE/Q2**.

11. R. S. Pathak, **Akhilesh Prasad** and M. Kumar, An n-Dimensional pseudo-differential operator $h_{\mu,a}$ involving the Hankel transformation, *Proc. Indian Acad. Sci. (Math. Sci.)*, **122** (1), pp. 99–120, (2012), **(Springer)/SCIE/Q4**.

10. R. S. Pathak, **Akhilesh Prasad** and M. Kumar, n- Dimensional Sobolev type spaces involving Hankel transformation, *Appl. Math. Comput.*, **218**(3), pp. 899-905, (2011) **(Elsevier)/SCIE/Q1**.

9. **Akhilesh Prasad** and M. Kumar, Product of two generalized pseudo-differential operators involving fractional Fourier transform, *J. Pseudo-Differ. Oper. Appl.*, **2**(3), pp. 355-365, (2011). **(Springer-Birkhäuser)/SCIE/Q1**.

8. **Akhilesh Prasad**, A. Mahato and M.M. Dixit, The Bessel wavelet transform, *Int. J. Math. Anal.* **5** (2), pp. 87-97, (2011) (**Scopus**).

7. **Akhilesh Prasad** and M. Kumar, Continuity of pseudo-differential operator $h_{\mu,a}$ involving Hankel translation and Hankel convolution on some Gevrey spaces, *Integral Transforms Spec. Funct.*, **21**(6), pp. 465-477, (2010). **(Taylor & Francis)/SCIE**.

6. **Akhilesh Prasad**, Multiplication of pseudo-differential operator involving Hankel convolution on some Gevrey spaces, *J. Indian Math. Soc.*, **74**(3-4), pp. 133-145, (2007) **(Scopus)**.

5. **Akhilesh Prasad**, Pseudo-differential operator involving Hankel translation and Hankel convolution on some Gevrey spaces, *J. Indian Math. Soc.*, **73**(3-4), pp. 153-165, (2006) **(Scopus)**.

4. R. S. Pathak and **Akhilesh Prasad**, A generlized pseudo-differential operator on Gel'fand-Shilov space and Sobolev space, *Indian J. Pure Appl. Math.*, **37**(4), 223-235, (2006). **(INSA/Springer)/SCIE/Q4**.

3. R. S. Pathak and **Akhilesh Prasad**, The pseudo-differential operator $h_{\mu,a}$ on some Gevrey spaces, *Indian J. Pure Appl. Math.* **34**(8), pp. 1225-1236, (2003). **(INSA/Springer)/SCIE/Q4**.

2. R. S. Pathak and **Akhilesh Prasad**, The pseudo-differential operator $h_{\mu,a}$ on Hankel invariant spaces, *Appl. Anal.* **82**(2), pp. 187-196, (2003). **(Taylor & Francis)/SCIE/Q2**.

1. R. S. Pathak and **Akhilesh Prasad**, Continuity of pseudo-differential operators associated with the Bessel operators in some Gevrey spaces, *Appl. Anal.* **81**(3), pp. 637- 662, (2002). **(Taylor & Francis)/SCIE/Q2**.