



Virginia Kiryakova, Prof., Dr.Sc., Ph.D.
Bulgarian Academy of Sciences -
Institute of Mathematics and Informatics

Ed.-in-Chief of International Journals:

„**Fractional Calculus and Applied Analysis**” (FCAA),
<http://www.degruyter.com/view/j/fca>
„**Internat. Journal of Applied Mathematics**” (IJAM)
<http://www.diogenes.bg/ijam/>

• **Scientific Degrees and Affiliation:**

Dr.Sc. (2010): Dr.Sc. Thesis: “Generalized Fractional Calculus and Applications in Analysis”

Ph.D. (1987): Ph.D. Thesis: “Generalized Operators of Integration and
Differentiation of Fractional Order and Applications”

B.Sc. / M. Sc. (1975): Sofia University “St. Kl. Ohridski”, Dept. Mathematics, Sofia.

Affiliation:

Institute of Mathematics and Informatics (IMI) - Bulgarian Academy of Sciences (BAS),
since 1975, currently – Full Professor

• **Fields of Research:** Mathematics, Topics -

Mathematical Analysis: Special Functions, Integral Transforms, Fractional Calculus

• **Languages:** English (Certificated), Russian (Very Good), French (Average)

• **Awards:**

2012: FDA Dissemination Award, Conf. FDA12 – Nanjing, China

<http://em.hhu.edu.cn/fda12/Awards.html>

1996: Academic Prize for Mathematical Sciences of Bulgarian Academy of Sciences

1994: Badge of Honour of the Town of Sofia

1969: 3rd Prize, Bronze Medal at 11th Internat. Math. Olympiad (Bucurest)

• **Specializations:**

1997, Japan - Fukuoka Univ., Fukuoka

1992, Great Britain - Strathclyde Univ., Glasgow (by British Council scheme)

1990, Belarus – Belorussian State University, Minsk

• **Scientific Publications:**

h-index = 24, by Google Scholar and Harzing’s Publish or Perish:

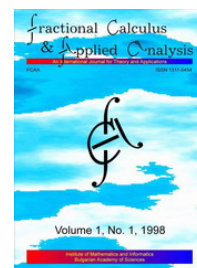
<http://scholar.google.com/citations?user=HEuWjBAAAAAJ&hl=en> “;

h-index = 13, according Thomson Reuters “Web of Science” and Elsevier “Scopus”



Scientific Articles: Total number > 120

Monograph: Virginia Kiryakova,
Generalized Fractional Calculus and Applications,
Longman (Harlow, UK) & John Wiley (N. York,
USA), 1994; ISBN 0582219779; 978-0582219779, etc.



V. Kiryakova’s scientific works have been **cited by other authors more than 3000 times**

• **Expert Activities:**

- **Member of the Executive Body of National Science Fund** – Bulgarian Ministry of Education and Science (2017 –)
- **Member of the Specialized Scientific Council** for Mathematics at the State Attestation Commission of Bulgaria (2004 – 2007, 2007 – 2010)
- **Member of Scientific Council of Institute of Math. and Inform. (IMI)** – BAS (2012 – 2016, 2016 –)
- **Leader Project Coordinator and / or member for several Res. Projects** under Nat. Sci. Fund – BG; and bilateral collaboration between Bulgarian, Serbian and Polish academies, etc.

• **Managed and Edited International Mathematical Journals (3):**

- “**Fractional Calculus and Applied Analysis**” (Editor-inChief, De Gruyter; SCI and Scopus indexed; <http://www.degruyter.com/view/j/fca> , <http://www.math.bas.bg/~fcaa>),
- “**International Journal of Applied Mathematics**” (Ed. in Chief, Acad. Publications, Sofia, <http://www.diogenes.bg/ijam>)
- “**Mathematica Balkanica**” (Asso. Editor, Math. Assoc. Societies South-East. Europe, <http://www.mathbalkanica.info/board.htm>)

• **Member of Edit. Boards of Internat. Math. Journals abroad:**

“Math. Science Research Journal” (Internat. Publs, USA), “J. Concrete and Applied Math.” (Nova Sci., USA), “Jordan J. of Mathematics and Statistics” (Yarmouk Univ., Jordan), “Advances in Applied Mathematical Analysis” (AAMA, Research India Publs., Delhi-India), “Approx. Theory and Applications” (Serial Publ., India), “Mathematics in Engineering, Science and Aerospace” (MESA, Cambridge Sci. Publ.,UK and I&S Publ. USA), “Fractional Differential Calculus” (El-Math, Croatia), “Alexandria Journal of Mathematics” (Alex Journals, OA Acad. J., Egypt), “Pan-American Mathematical Journal” (Internat. Publications – USA), “J. of Inequalities and Special Functions” (Ilirias Corporation, Kosovo), “Advances in Mathematics: Scientific Journal” (Research Publ., Skopje), etc.

• **Other Scientific Activities:**

- **Member and Chair of Intern. Progr. Committees of Specialized Math. Conferences:**

In BG: “Complex Analysis and Appl-s (Varna’1985, 1987, 1991; Sofia’ 2013), “Transform Methods & Special Functions” (1994, 1996, 1999, 2003, 2011, 2014, 2017), “Internat. MASSEE Congress” (Bulgaria, 2003), Second Internat. Conf. Appl. Math. (Plovdiv, 2005) “Geometric Function Theory and Applications’ 2010”, “AMEE’12” - “AMEE’17”; etc.

Abroad: Belarus (AMADE, 1995, 1999, 2003, 2005, 2009, 2011, 2015), Lebanon (RTST, 1999, 2002 ,2005), France (FDA’2013), Holland (ENOC’05, 2005), Portugal (FDA ‘2006), Turkey (FDA ’2008), Russia-Abkh. Rep. (Intern.Russian–Abkhazian Symp. 2010), Portugal (Symp. Fract. Signals Systems, 2009 and 2013), Spain (FDA, 2010), UAE (4th Intern. Conf. on Math. Sci. ICM-2012), Macedonia (GFTA’12, GFTA ‘15), China (FDA’2012) – Vice Chair of Steering Com.; Italy (ICFDA’14) – Chair of Intern. Program Com., Serbia (ICFDA ’16) – Vice Chair, Jordan (ICFDA ’18), etc.

• **Visiting Professor: In universities, scientific institutions and intern. conferences abroad:** Great Britain, USA, Japan, Kuwait, Holland, Lebanon, Tunisia, Spain, Portugal, Russia, Belarus, Poland, Italy, Serbia, Macedonia, Hungary, Germany, Turkey, UAE, China, etc.

• **Membership in Scientific Organizations:**

Edinburgh Mathematical Society, American Mathematical Society, SIAM (Soc. Industrial Appl. Math.); Union of Scientists in Bulgaria

• **Social Activities:**

1991 – 1995: Member of Town (Municipality) Council of Sofia

2004 – 2009: Member of Board of “Association of Bulgarians Who Studied in Britain”

2005 – 2008: Member of Board of Lions Club “Sofia- Sunrise”

2002 – 2010: Member of “Lions International” – Lions Club “Sofia-Sunrise”

1995 – ...: Member of “ABSB” (Association of Bulgarians Who Studied in Britain)

1991 – 1995: Secretary of the Education and Science Commission at Sofia Town Council

1991-1994, 1994-1998: Secretary of “Mathematics” Section – Union of Scientists in Bulgaria

• **Hobbies:** Composing poetry; Cats; Reiki (Eastern healing practice), Swimming, Politics

LIST OF PUBLICATIONS

of Prof. Dr. Sc. Virginia Kiryakova

Institute of Mathematics and Informatics, Bulgarian Academy of Sciences

Monograph:

[K] V. Kiryakova, “*Generalized Fractional Calculus and Applications*”, Longman Sci. & Techn., Harlow and J. Wiley & Sons Inc, N. York, 1994, 402 p., ISBN 0-582-21977-9

Some Selected Scientific Papers and Surveys:

- K1. I.H. Dimovski, V.S. Kiryakova: On an integral transformation, due to N. Obrechhoff, *Lecture Notes in Math.*, **798** (1980), 141-147; DOI: 10.1007/BFb0097259.
<http://www.springerlink.com/content/m10261313073p3x0/> IF = 0.363
- K2. I.H. Dimovski, V.S. Kiryakova: Complex inversion formulas for the Obrechhoff transform, *Pliska (Stud. Math. Bulg.)*, **4** (1981), 110-116.
- K5. I.H. Dimovski, V.S. Kiryakova: Convolution and commutant of Gelfond-Leontiev operator of integration, *Proc. Conf. Constr. Function Theory, Varna'1981*, Sofia, 1982, 288-294.
- K6. I. Dimovski, V. Kiryakova: Convolution and differential property of Borel-Dzrbashjan transform, *Proc. Conf. Complex Anal. and Appl., Varna'81*, Sofia, 1984, 148-156.
- K8. V.S. Kiryakova: An application of Meijer's G-function to Bessel-type operators, *Proc. Conf. Constr. Function Theory, Varna'1981*, Sofia, 1984, 457-462.
- K10. I.H. Dimovski, V.S. Kiryakova: Transmutations, convolutions and fractional powers of Bessel-type operators via Meijer G-functions, *Proc. Conf. Complex Anal. and Appl., Varna'1983*, Sofia, 1985, 45-66.
- K12. V.S. Kiryakova: On operators of fractional integration involving Meijer's G-functions, *C.R. Acad. Bulg. Sci.*, **39** (1986), No 10, 25-28. IF = 0.09
- K13. I.H. Dimovski, V.S. Kiryakova: Generalized Poisson transmutations and corresponding representations of hyper-Bessel functions, *C.R. Acad. Bulg. Sci.*, **39** (1986), No 10, 29-32. IF = 0.09

- K14. V.S. Kiryakova: New integral representations of the generalized hypergeometric functions, *C.R. Acad. Bulg. Sci.*, **39** (1986), No 12, 33-36. IF = 0.09
- K15. V.S. Kiryakova: An application of the generalized operators of fractional integration to dual integral equations involving Meijer's G -function, *Pliska (Stud. Math. Bulg.)*, **10** (1989), 93-107.
- K16. V. Kiryakova: *Generalized Operators of Fractional Integration and Differentiation and Applications*, Ph.D. Thesis, Sofia Univ., 1986.**
- K18. I.H. Dimovski, V. S. Kiryakova: Generalized Poisson representations of hypergeometric functions ${}_pF_q$, $p < q$ using fractional integrals, *Math. and Educ. Math., Proc. UBM*, 1987, 205-212.
- K19. V. S. Kiryakova: Generalized fractional derivative representations of hypergeometric functions ${}_pF_q$ with $p < q$, *Math. and Educ. Math., Proc. UBM*, 1987, 228-235.
- K20. V.S. Kiryakova: Generalized fractional integral and fractional derivative representations of hypergeometric functions ${}_pF_q$ for $p = q$ and $p = q + 1$, *Proc. Conf. Constr. Function Theory, Varna '1987*, 1988, 260-269.
- K22. V.S. Kiryakova : Convolutions of Erdelyi-Kober fractional integrals, *Proc. Conf. Complex Anal. and Appl., Varna '1987*, 1989, 273-283.
- K23. V.S. Kiryakova: A generalized fractional calculus and integral transforms, *Proc. Conf. GFCA, Dubrovnik'1987* (Plenum Publ. Co., New York), 1988, 205-217; http://link.springer.com/chapter/10.1007/978-1-4613-1055-6_20; DOI: 10.1007/978-1-4613-1055-6_20.
- K24. V.S. Kiryakova: A new differential formula for Meijer's G -function, *C.R. Acad. Bulg. Sci.*, **41** (1988), No 5, 27-30. IF = 0.126
- K25. D. Nikolic-Despotovic, V.S. Kiryakova: Abelian theorems for the Obrechhoff integral transform, *Review Research Fac. Sci., Math. Ser., Univ. Novi Sad*, **18** (1988), No 2, 45-60.
- K26. V.S. Kiryakova: Multiple Erdelyi-Kober fractional differintegrals and their use in univalent, starlike and convex function theory, *Annuaire Univ. Sofia Fac. Math. Mech. (Annual of the University of Sofia)*, **81** (1987), 261-283.
- K27. V.S. Kiryakova: Fractional integration operators involving Fox's $H(m,0/m,m)$ -function, *C.R. Acad. Bulg. Sci.*, **41** (1988), No 11, 11-14. IF = 0.126
- K28. V.S. Kiryakova: Generalized $H(m,0/m,m)$ - function fractional integration operators in some classes of analytic functions, *Mat. Vesnik (Bulletin Mathematique, Beograd)*, **40** (1988), No 3-4, 259-266.
- K29. S.L. Kalla, V.S. Kiryakova: An H -function generalized fractional calculus based upon compositions of Erdelyi-Kober operators in L_p , *Math. Japonicae*, **35** (1990), No 6, 1151-1171.
- K30. S.L. Kalla, V.S. Kiryakova: A generalized fractional calculus dealing with H -functions, *Proc. Conf. Fractional Calculus and Its Appl., Tokyo'1989* (Nihon Univ.), 1990, 62-69.
- K32. V.S. Kiryakova: Poisson and Rodrigues type fractional differintegral formulas for the generalized hypergeometric functions ${}_pF_q$, *Atti Sem. Mat. Fis. Univ. Modena*, **39** (1990), 311-322.
- K35. V.S. Kiryakova, H.M. Srivastava: Generalized (multiple) Riemann-Liouville fractional differintegrals and their use in univalent function theory, In: "*Analysis, Geometry and Groups: a Riemann Legacy Volume*". Hadronic Press, Inc. (Florida, USA, ISBN 0-911767-59-2), 1993, Part 1, 191-226.
- K41. L. Galue, V. Kiryakova: Further results on a family of generalized radiation integrals, *Radiation Phys. & Chem.* **43**, No 6 (1994), 573-579. IF = 0.395
- K42. V. Kiryakova, A. McBride: Explicit solution of the nonhomogeneous hyper-Bessel

- differential equation, *C.R. Acad. Bulg. Sci.*, **46**, No 5 (1993), 23-26.
- K44. V. Kiryakova, V. Hernandez-Suarez: Bessel-Clifford third order differential operator and corresponding Laplace type integral transform, *Dissertationes Mathematicae*, **340** (1995), 143-161.
- K46. N. Hayek, V. Kiryakova, V. Hernandez-Suarez: Laplace type integral transform for the third order Bessel-Clifford differential operator, *C. R. Acad. Bulg. Sci.*, **48**, No 7 (1995), 21-24.
- K47. V. Kiryakova: Generalized fractional calculus, special functions and integral transforms, In: *Transform Methods & Special Functions*, Sofia '94 (Proc. 1st Internat. Workshop). SCTP - Singapore, 1995, 123-149.
- K51. V. Kiryakova: Multiple Dzrbashjan-Gelfond-Leontiev fractional differintegrals, In: *Recent Advances in Appl. Mathematics '96* (Proc. Intern. Workshop, Kuwait Univ.), 1996, 281-294.
- K52. B. Al-Saqabi, V. Kiryakova: Explicit solutions of fractional integral and differential equations, involving Erdelyi-Kober operators, *Appl. Mathematics and Comput.*, **95**, No 1 (1998), 1-13. [doi:10.1016/S0096-3003\(97\)10095-9](https://doi.org/10.1016/S0096-3003(97)10095-9) IF = 0,248
- K53. V. Kiryakova, B. Al-Saqabi: Transmutation methods for solving Erdelyi-Kober fractional differintegral equations, *J. Math. Analysis and Appl-s*, **211**, No 1 (1997), 347-364, <http://dx.doi.org/10.1006/jmaa.1997.5469> IF = 0,339
- K54. B. Al-Saqabi, V. Kiryakova: Explicit solutions to hyper-Bessel integral equations of second kind, *Computers and Mathematics with Appl-s*, **37**, No 1 (1999), 75-86. [doi:10.1016/S0898-1221\(98\)00243-0](https://doi.org/10.1016/S0898-1221(98)00243-0) IF = 0,314
- K56. V. Kiryakova: A long standing conjecture failed?, *Transform Methods & Special Functions*, Varna '96 (Proc. 2nd Internat. Workshop), IMI – Bulg. Acad. Sci, Sofia (1998), 584-593.
- K57. I. Dimovski, V. Kiryakova: Obrechhoff's generalization of the Laplace and Meijer transforms: origins and recent developments, *Transform Methods & Special Functions*, Varna' 96 (Proc. 2nd Internat. Workshop). IMI – Bulg. Acad. Sci, Sofia (1998), 557-577.
- K58. V. Kiryakova: All the special functions are fractional differintegrals of elementary functions, *J. Physics A: Math. & General*, **30**, No 14 (1997), 5085-5103. doi: [10.1088/0305-4470/30/14/019](https://doi.org/10.1088/0305-4470/30/14/019) IF = 1,48
- K59. V. Kiryakova, M. Saigo, H.M. Srivastava: Some criteria for univalence of analytic functions involving generalized fractional calculus, *Fractional Calculus and Applied Analysis*, **1**, No 1 (1998), 79-104.
- K60. I. Dimovski, V. Kiryakova: The Obrechhoff integral transform: Properties and relation to a generalized fractional calculus, *Numerical Functional Analysis and Optimization*, **21**, No 1-2 (2000), 121-144;
DOI: 10.1080/01630560008816944 IF = 0,313
- K62. V. Kiryakova: Multiindex Mittag-Leffler functions, related Gelfond-Leontiev operators and Laplace type transforms, *Fractional Calculus and Appl. Analysis*, **2**, No 4 (1999), 445-462.
- K63. V. Kiryakova, M. Saigo, S. Owa: Distortion and characterization theorems for starlike and convex functions related to generalized fractional calculus, *Korean J. Math. Sci.*, **5** (1998), 1-28.
- K64. V. Kiryakova: Multiple (multiindex) Mittag-Leffler functions and relations to generalized fractional calculus, *J. Comput. Appl. Mathematics*, **118** (2000), 241-259; [doi:10.1016/S0377-0427\(00\)00292-2](https://doi.org/10.1016/S0377-0427(00)00292-2) IF = 0,455
- K65. Yu. Luchko, V. Kiryakova: Generalized Hankel transforms for hyper-Bessel

- differential operators, *C.R. Acad. Bulg. Sci.*, **53**, No 8 (2000), 17-20.
- K66. Yu. Luchko, V. Kiryakova: Hankel type integral transforms connected with the hyper-Bessel differential operators, *Banach Center Publ.*, **53: Algebraic Analysis and Related Topics** (2000), 155-165.
- K67. F. Al-Musallam, V. Kiryakova, Vu Kim Tuan: A multi-index Borel-Dzrbashjan transform, *Rocky Mountain J. Math.* **32**, No 2 (2002), 409-428;
doi:10.1216/rmj/1030539678 IF = 0,137
- K68. I. Ali, V. Kiryakova, S. Kalla: Solutions of fractional multi-order integral and differential equations using a Poisson-type transform, *J. Math. Anal. and Appl.* **269**, No 1 (2002), 172-199; doi:10.1016/S0022-247X(02)00012-4 IF = 0,444
- K70. V. Kiryakova: Meijer's G -function: Bulgarian traces for its use in special functions, integral transforms and fractional calculus. Invited talk at 31st Spring Conf. of UBM, in: "*Mathematics and Educ. in Math.* '2002", 25-34.
- K73. V. Kiryakova, M. Saigo, Sh. Owa: Distortion and characterization theorems for generalized fractional integration operators involving H -function in subclasses of univalent functions, *Fukuoka University Science Reports*, Vol. **34**, No 1 (March 2004), 1-16.
- K75. V. Kiryakova: The multi-index Mittag-Leffler functions as generators of fractional calculus operators and Laplace transforms, In: *Internat. Conference on Mathematics and Its Applications (ICMA 2004)*, Kuwait Univ.- Extended Abstracts, 169–175.
- K77. V. Kiryakova, M. Saigo: Criteria for generalized fractional integrals to preserve univalence of analytic functions, *C.R. Acad. Bulg. Sci.*, **58**, No 10 (2005), 1127-1134.
- K78. M. Saigo, S. Owa, V. Kiryakova: Characterization theorems for starlike and convex functions in terms of generalized fractional calculus, *C.R. Acad. Bulg. Sci.*, **58**, No 10 (2005), 1135-1142.
- K79. V. Kiryakova: Multi-index Mittag-Leffler functions, generalized fractional calculus and Laplace type transform, *Proc. 2nd IFAC Workshop "Fractional Differentiation and its Applications (FDA'06)"*, Porto, July 19-21, 2006, Portugal, 181-186.
- K80. V. Kiryakova: Obrechhoff integral transform and hyper-Bessel operators via G -function and fractional calculus approach, *Global J. Pure and Appl. Mathematics*, **1**, No 3 (2005), 321-341.
- K81. V. Kiryakova: On two Saigo's fractional integral operators in the class of univalent functions, *Fractional Calculus and Applied Analysis*, **9**, No 2 (2006), 159-176.
- K82. S. Owa, M. Saigo, V. Kiryakova: Inequalities for Saigo's fractional calculus operator, *J. Approximation Theory and Applications*, **3**, No 1-2 (2007), 53-62.
- K84. V. Kiryakova: Some special functions related to fractional calculus and fractional (non- integer) order control systems and equations, "*Facta Universitatis*" (*Sci. J. of University of Niš*), Series: *Automatic Control and Robotics*, **7**, No 1 (2008), 79-98 (UDC 517.93), <http://facta.junis.ni.ac.rs/acar/acar200801/acar2008-07.pdf>
- K85. V. Kiryakova: A brief story about the operators of the generalized fractional calculus, *Fract. Calculus and Appl. Analysis*, **11**, No 2 (2008), 203-220; at <http://www.math.bas.bg/~fcaa> .
- K86. V. Kiryakova: Transmutation method for solving hyper-Bessel differential equations based on the Poisson-Dimovski transformation, *Fractional Calculus and Appl. Analysis*, **11**, No 3 (2008), 299-316; at <http://www.math.bas.bg/~fcaa> .

- K88. V. Kiryakova: The multi-index Mittag-Leffler functions as important class of special functions of fractional calculus, *Computers and Mathematics with Applications*, **59**, No 5 (2010), 1885-1895; [doi:10.1016/j.camwa.2009.08.025](https://doi.org/10.1016/j.camwa.2009.08.025) IF=1,472
- K89. V. Kiryakova: The special functions of fractional calculus as generalized fractional calculus operators of some basic functions, *Computers and Mathematics with Applications*, **59**, No 3 (2010), 1128-1141; [doi:10.1016/j.camwa.2009.05.014](https://doi.org/10.1016/j.camwa.2009.05.014) IF=1,472
- K92. J. Tenreiro Machado, V. Kiryakova, F. Mainardi: Recent history of fractional calculus, *Communications in Nonlinear Sci. and Numerical Simulations*, **16**, No 3 (2011), 1140-1153; [doi:10.1016/j.cnsns.2010.05.027](https://doi.org/10.1016/j.cnsns.2010.05.027) IF = 2.806
- K93. V. Kiryakova: The operators of generalized fractional calculus and their action in classes of univalent functions, In: “*Geometric Function Theory and Applications' 2010*” (Proc. of International Symposium, Sofia, 27-31.08.2010), 29-40.
- K94. V. Kiryakova, Yu. Luchko: The multi-index Mittag-Leffler functions and their applications for solving fractional order problems in applied analysis, In: *American Institute of Physics – Conf. Proc. # 1301 (AMiTaNS'10)*, 597-613; <http://dx.doi.org/10.1063/1.3526661> (ISBN 978-0-7354-0856-2, 0094-243X),
SJR = 0.142
- K95. J. Tenreiro Machado, V. Kiryakova, F. Mainardi: A note and poster on the recent history of fractional calculus, *Fract. Calc. Appl. Anal.* **13**, No 3 (2010), 329-334; at <http://www.math.bas.bg/~fcaa>.
- K96. P. Rajkovic, V. Kiryakova: Legendre-type special functions defined by fractional order Rodrigues formula, In: *American Institute of Physics – Conf. Proc. # 1301 (AMiTaNS' 10)*, 644-649; <http://dx.doi.org/10.1063/1.3526666> (ISBN 978-0-7354-0856-2, 0094-243X) SJR = 0.142
- K97. J. Tenreiro Machado, V. Kiryakova, F. Mainardi: A poster about the old history of fractional calculus, *Fract. Calc. Appl. Anal.* **13**, No 4 (2010), 447-454; at <http://www.math.bas.bg/~fcaa>.
- K98. В. Кирякова: Обобщено дробно смятане и приложения в анализа, Автореферат на дисертация за присъждане на н. ст. „доктор на мат. науки”, София – ИМИ, 64 стр. (V. Kiryakova: *Generalized Fractional Calculus and Applications in Analysis, Summary of Dr.Sc. Thesis, Sofia, IMI-BAS, 64 pp.*)**
- K99. V. Kiryakova: Criteria for univalence of the Dziok-Srivastava and Srivastava-Wright operators in the class *A*, *Applied Mathematics and Computation*, **218**, No 3 (2011), 883-892; doi: 10.1016/j.amc.2011.01.076 IF = 1,317
- K100. V. Kiryakova: Generalized fractional calculus, special functions and integral transforms, What is the relation?, In: “*Mathematics and Education in Mathematics '2011*” (Proc. of 40th Jubilee Spring Conference of Union of Bulgarian Mathematicians, Borovets, April 5-9, 2011), 42-53 (Invited Talk), available at: http://www.math.bas.bg/smb/2011_PK/tom/pdf/042-053.pdf
- K101. V. Kiryakova: Fractional order differential and integral equations with Erdelyi-Kober operators: Explicit solutions by means of the transmutation method, *American Institute of Physics – Conf. Proc. # 1410* (2011), 247-258 (AMEE' 2011); doi: 10.1063/1.3664376 (ISBN: 978-0-7354-0984-2) SJR = 0.142
- K102. V. Kiryakova: *The Classical Special Functions and the Special Functions of*

- Fractional Calculus as G- and H-Functions*; Preprint No 5 / 2011 – Institute of Math. and Inform. – B.A.S., Sofia, 2011; 74 pp. (Manual for PhD students, young scientists and beginners in special functions).
- K104. V. Kiryakova: Some operational tools for solving fractional and higher integer order differential equations: A survey on their mutual relations; *American Institute of Physics – Conf. Proc.* # **1497** (2012), 273-289 (AMEE' 2012); ISBN: 978-0-7354-111-1; doi: 10.1063/1.4766795 SJR = 0.161
- K105. V. Kiryakova: Unified approach to univalence of the Dziok-Srivastava and the fractional calculus operators, *Advances in Mathematics: Scientific Journal*, **1**, No 1 (2012), 33-43 (ISSN 1857-8365; UDC: 517.546:517.588)
- K106. V. Kiryakova: Special functions of fractional calculus and fractional order differential equations; In: *Proc. Intern. Conf. "NODDEA' 12" (Nonlinear Difference and Differential Equations and their Applications)*, Univ. of Rouse, 2012, 23-44. (ISBN 978-954-8467-84-1)
- K108. Yu. Luchko, V. Kiryakova: The Mellin integral transform in fractional calculus, *Fract. Calc. Appl. Anal.* **16**, No 2 (2013), 405-430; DOI: 10.2478/s13540-013-0025-8; IF = 2.974
<http://www.degruyter.com/view/j/fca.2013.16.issue-2/issue-files/fca.2013.16.issue-2.xml>
- K109. V. Kiryakova, Yu. Luchko: Riemann-Liouville and Caputo type multiple Erdelyi-Kober operators, *Central European J. of Physics*, **11**, No 10 (2013), 1314-1336; DOI: 10.2478/s11534-013-0217-1 IF=1.077
- K111. V. Kiryakova: An open problem of Ljubomir Iliev related to the Mittag-Leffler function and fractional calculus operators, *Complex Analysis and Applications '13* (Proc. of Intern. Conf., Sofia, 31 Oct.-2 Nov. 2013), Sofia 2013, 139-153. (ISBN 978-954-8986-37-3 and ISBN 978-954-8986-38-0)
- K113. D. Valerio, JA Tenreiro Machado, V. Kiryakova: Some pioneers of the applications of fractional calculus, *Fract. Calc. Appl. Anal.* **17**, No 2 (2014), 552-578; DOI: 10.2478/s13540-014-0185-1 IF = 2.254
<http://www.degruyter.com/view/j/fca.2014.17.issue-2/issue-files/fca.2014.17.issue-2.xml>
- K114. V. Kiryakova: From the hyper-Bessel operators of Dimovski to the generalized fractional calculus, *Fract. Calc. Appl. Anal.* **17**, No 4 (2014), 977-1000; DOI: 10.2478/s13540-014-0210-4; IF = 2.254
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