

Yulia V Kovas

List of Publications by Year in descending order

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Version: 2024-02-01

123
papers

5,525
citations

81900

39
h-index

91884

69
g-index

126
all docs

126
docs citations

126
times ranked

5300
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Generalist Genes and Learning Disabilities.. Psychological Bulletin, 2005, 131, 592-617. | 6.1 | 498 |
| 2 | The heritability of general cognitive ability increases linearly from childhood to young adulthood. Molecular Psychiatry, 2010, 15, 1112-1120. | 7.9 | 492 |
| 3 | True grit and genetics: Predicting academic achievement from personality.. Journal of Personality and Social Psychology, 2016, 111, 780-789. | 2.8 | 275 |
| 4 | Generalist genes: implications for the cognitive sciences. Trends in Cognitive Sciences, 2006, 10, 198-203. | 7.8 | 256 |
| 5 | The high heritability of educational achievement reflects many genetically influenced traits, not just intelligence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15273-15278. | 7.1 | 246 |
| 6 | I. INTRODUCTION. Monographs of the Society for Research in Child Development, 2007, 72, 1-13. | 6.8 | 165 |
| 7 | Internet Cognitive Testing of Large Samples Needed in Genetic Research. Twin Research and Human Genetics, 2007, 10, 554-563. | 0.6 | 138 |
| 8 | Predicting educational achievement from DNA. Molecular Psychiatry, 2017, 22, 267-272. | 7.9 | 137 |
| 9 | Understanding Neurocognitive Developmental Disorders Can Improve Education for All. Science, 2013, 340, 300-305. | 12.6 | 136 |
| 10 | Is Math Anxiety Always Bad for Math Learning? The Role of Math Motivation. Psychological Science, 2015, 26, 1863-1876. | 3.3 | 130 |
| 11 | Who is afraid of math? Two sources of genetic variance for mathematical anxiety. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2014, 55, 1056-1064. | 5.2 | 129 |
| 12 | Intrinsic Motivation and Achievement in Mathematics in Elementary School: A Longitudinal Investigation of Their Association. Child Development, 2016, 87, 165-175. | 3.0 | 112 |
| 13 | Genetic Influences in Different Aspects of Language Development: The Etiology of Language Skills in 4.5-Year-Old Twins. Child Development, 2005, 76, 632-651. | 3.0 | 102 |
| 14 | A genome-wide association study identifies multiple loci associated with mathematics ability and disability. Genes, Brain and Behavior, 2010, 9, 234-247. | 2.2 | 100 |
| 15 | New literacy challenge for the twenty-first century: genetic knowledge is poor even among well educated. Journal of Community Genetics, 2019, 10, 73-84. | 1.2 | 87 |
| 16 | More Than Just IQ. Psychological Science, 2009, 20, 753-762. | 3.3 | 82 |
| 17 | “Generalist genes”™ and mathematics in 7-year-old twins. Intelligence, 2005, 33, 473-489. | 3.0 | 80 |
| 18 | The correlation between reading and mathematics ability at age twelve has a substantial genetic component. Nature Communications, 2014, 5, 4204. | 12.8 | 72 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Literacy and Numeracy Are More Heritable Than Intelligence in Primary School. <i>Psychological Science</i> , 2013, 24, 2048-2056. | 3.3 | 70 |
| 20 | Overlap and specificity of genetic and environmental influences on mathematics and reading disability in 10-year-old twins. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2007, 48, 914-922. | 5.2 | 69 |
| 21 | A Twin Study of Teacher-Reported Mathematics Performance and Low Performance in 7-Year-Olds.. <i>Journal of Educational Psychology</i> , 2004, 96, 504-517. | 2.9 | 68 |
| 22 | Why do spatial abilities predict mathematical performance?. <i>Developmental Science</i> , 2014, 17, 462-470. | 2.4 | 67 |
| 23 | Why children differ in motivation to learn: Insights from over 13,000 twins from 6 countries. <i>Personality and Individual Differences</i> , 2015, 80, 51-63. | 2.9 | 67 |
| 24 | Learning Abilities and Disabilities. <i>Current Directions in Psychological Science</i> , 2007, 16, 284-288. | 5.3 | 65 |
| 25 | Generalist genes and learning disabilities: a multivariate genetic analysis of low performance in reading, mathematics, language and general cognitive ability in a sample of 8000 12-year-old twins. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2009, 50, 1318-1325. | 5.2 | 64 |
| 26 | Mathematical Ability of 10-Year-Old Boys and Girls. <i>Journal of Learning Disabilities</i> , 2007, 40, 554-567. | 2.2 | 63 |
| 27 | Generalist Genes: Genetic Links Between Brain, Mind, and Education. <i>Mind, Brain, and Education</i> , 2007, 1, 11-19. | 1.9 | 59 |
| 28 | Cross-cultural investigation into cognitive underpinnings of individual differences in early arithmetic. <i>Developmental Science</i> , 2015, 18, 165-174. | 2.4 | 56 |
| 29 | Epidemiology and symptomatology of depression in Sri Lanka: A cross-sectional population-based survey in Colombo District. <i>Journal of Affective Disorders</i> , 2010, 123, 188-196. | 4.1 | 53 |
| 30 | Math Fluency Is Etiologically Distinct From Untimed Math Performance, Decoding Fluency, and Untimed Reading Performance. <i>Journal of Learning Disabilities</i> , 2012, 45, 371-381. | 2.2 | 52 |
| 31 | A latent profile analysis of math achievement, numerosity, and math anxiety in twins.. <i>Journal of Educational Psychology</i> , 2016, 108, 181-193. | 2.9 | 52 |
| 32 | Evidence for shared genetic risk between ADHD symptoms and reduced mathematics ability: a twin study. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2014, 55, 39-48. | 5.2 | 51 |
| 33 | Differences in exam performance between pupils attending selective and non-selective schools mirror the genetic differences between them. <i>Npj Science of Learning</i> , 2018, 3, 3. | 2.8 | 48 |
| 34 | Common aetiology for diverse language skills in 4 1/2-year-old twins. <i>Journal of Child Language</i> , 2006, 33, 339-368. | 1.2 | 46 |
| 35 | Pleiotropy across academic subjects at the end of compulsory education. <i>Scientific Reports</i> , 2015, 5, 11713. | 3.3 | 46 |
| 36 | The genetic and environmental aetiology of spatial, mathematics and general anxiety. <i>Scientific Reports</i> , 2017, 7, 42218. | 3.3 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Why do we differ in number sense? Evidence from a genetically sensitive investigation. <i>Intelligence</i> , 2014, 43, 35-46. | 3.0 | 44 |
| 38 | From classroom environment to mathematics achievement: The mediating role of self-perceived ability and subject interest. <i>Learning and Individual Differences</i> , 2016, 50, 260-269. | 2.7 | 43 |
| 39 | Developmental Origins of Low Mathematics Performance and Normal Variation in Twins from 7 to 9 Years. <i>Twin Research and Human Genetics</i> , 2007, 10, 106-117. | 0.6 | 42 |
| 40 | Longitudinal associations between narcissism, mental toughness and school achievement. <i>Personality and Individual Differences</i> , 2018, 131, 105-110. | 2.9 | 42 |
| 41 | The etiology of mathematical self-evaluation and mathematics achievement: Understanding the relationship using a cross-lagged twin study from ages 9 to 12. <i>Learning and Individual Differences</i> , 2011, 21, 710-718. | 2.7 | 41 |
| 42 | Mathematics is differentially related to reading comprehension and word decoding: Evidence from a genetically sensitive design.. <i>Journal of Educational Psychology</i> , 2012, 104, 622-635. | 2.9 | 40 |
| 43 | Number sense and mathematics: Which, when and how?. <i>Developmental Psychology</i> , 2017, 53, 1924-1939. | 1.6 | 40 |
| 44 | Reading self-perceived ability, enjoyment and achievement: A genetically informative study of their reciprocal links over time.. <i>Developmental Psychology</i> , 2017, 53, 698-712. | 1.6 | 39 |
| 45 | Sex differences in non-verbal and verbal abilities in childhood and adolescence. <i>Intelligence</i> , 2017, 64, 81-88. | 3.0 | 39 |
| 46 | Generalist genes and the Internet generation: etiology of learning abilities by web testing at age 10. <i>Genes, Brain and Behavior</i> , 2008, 7, 455-462. | 2.2 | 37 |
| 47 | Brain Correlates of Non-Symbolic Numerosity Estimation in Low and High Mathematical Ability Children. <i>PLoS ONE</i> , 2009, 4, e4587. | 2.5 | 36 |
| 48 | Early developmental trajectories of number knowledge and math achievement from 4 to 10 years: Low-persistent profile and early-life predictors. <i>Journal of School Psychology</i> , 2018, 68, 84-98. | 2.9 | 35 |
| 49 | Colombo Twin and Singleton Study (CoTASS): A description of a population based twin study of mental disorders in Sri Lanka. <i>BMC Psychiatry</i> , 2008, 8, 49. | 2.6 | 33 |
| 50 | Phenotypic and genetic evidence for a unifactorial structure of spatial abilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2777-2782. | 7.1 | 32 |
| 51 | Gene-Environment Interaction in the Etiology of Mathematical Ability Using SNP Sets. <i>Behavior Genetics</i> , 2011, 41, 141-154. | 2.1 | 31 |
| 52 | The origins of diverse domains of mathematics: Generalist genes but specialist environments.. <i>Journal of Educational Psychology</i> , 2007, 99, 128-139. | 2.9 | 28 |
| 53 | Evidence for a unitary structure of spatial cognition beyond general intelligence. <i>Npj Science of Learning</i> , 2020, 5, 9. | 2.8 | 27 |
| 54 | GENES AND GINI: WHAT INEQUALITY MEANS FOR HERITABILITY. <i>Journal of Biosocial Science</i> , 2019, 51, 18-47. | 1.2 | 25 |

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|----|---|-----|-----------|
| 55 | Genetics affects choice of academic subjects as well as achievement. <i>Scientific Reports</i> , 2016, 6, 26373. | 3.3 | 24 |
| 56 | The Genetic and Environmental Etiology of High Math Performance in 10-Year-Old Twins. <i>Behavior Genetics</i> , 2009, 39, 371-379. | 2.1 | 23 |
| 57 | Genetic and environmental contributions to depression in Sri Lanka. <i>British Journal of Psychiatry</i> , 2009, 195, 504-509. | 2.8 | 21 |
| 58 | Aetiology of fatigue in Sri Lanka and its overlap with depression. <i>British Journal of Psychiatry</i> , 2010, 197, 106-113. | 2.8 | 21 |
| 59 | Science in elementary school: Generalist genes and school environments. <i>Intelligence</i> , 2008, 36, 694-701. | 3.0 | 20 |
| 60 | Genetic and Environmental Contributions to the Overlap Between Psychological, Fatigue and Somatic Symptoms: A Twin Study in Sri Lanka. <i>Twin Research and Human Genetics</i> , 2011, 14, 53-63. | 0.6 | 20 |
| 61 | Genetic factors underlie the association between anxiety, attitudes and performance in mathematics. <i>Translational Psychiatry</i> , 2020, 10, 12. | 4.8 | 20 |
| 62 | Cognitive and regulatory characteristics and mathematical performance in high school students. <i>Personality and Individual Differences</i> , 2016, 90, 177-186. | 2.9 | 19 |
| 63 | Predicting maths anxiety from mathematical achievement across the transition from primary to secondary education. <i>Royal Society Open Science</i> , 2019, 6, 191459. | 2.4 | 18 |
| 64 | Personality, Behavioral strengths and difficulties and performance of adolescents with high achievements in science, literature, art and sports. <i>Personality and Individual Differences</i> , 2020, 160, 109917. | 2.9 | 18 |
| 65 | Alpha Band Resting-State EEG Connectivity Is Associated With Non-verbal Intelligence. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 10. | 2.0 | 17 |
| 66 | What Can the Study of Genetics Offer to Educators?. <i>Mind, Brain, and Education</i> , 2015, 9, 72-80. | 1.9 | 16 |
| 67 | Cognition, emotion, and arithmetic in primary school: A cross-cultural investigation. <i>British Journal of Developmental Psychology</i> , 2018, 36, 255-276. | 1.7 | 16 |
| 68 | Generalist genes analysis of DNA markers associated with mathematical ability and disability reveals shared influence across ages and abilities. <i>BMC Genetics</i> , 2010, 11, 61. | 2.7 | 15 |
| 69 | Visual and Linguistic Stimuli in the Remote Associates Test: A Cross-Cultural Investigation. <i>Frontiers in Psychology</i> , 2019, 10, 926. | 2.1 | 15 |
| 70 | The Sri Lankan Twin Registry: 2012 Update. <i>Twin Research and Human Genetics</i> , 2013, 16, 307-312. | 0.6 | 14 |
| 71 | The Factorial Structure of Spatial Abilities in Russian and Chinese Students. <i>Psychology in Russia: State of the Art</i> , 2018, 11, 96-114. | 0.6 | 13 |
| 72 | Spatial complexity of character-based writing systems and arithmetic in primary school: a longitudinal study. <i>Frontiers in Psychology</i> , 2015, 6, 333. | 2.1 | 12 |

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|----|--|-----|-----------|
| 73 | Associations between pre-sleep arousal and insomnia symptoms in early adulthood: a twin and sibling study. <i>Sleep</i> , 2019, 42, . | 1.1 | 12 |
| 74 | Mindfulness and associations with symptoms of insomnia, anxiety and depression in early adulthood: A twin and sibling study. <i>Behaviour Research and Therapy</i> , 2019, 118, 18-29. | 3.1 | 12 |
| 75 | Ordinary extraordinary: Elusive group differences in personality and psychological difficulties between STEM-gifted adolescents and their peers. <i>British Journal of Educational Psychology</i> , 2021, 91, 78-100. | 2.9 | 12 |
| 76 | School quality ratings are weak predictors of students' achievement and well-being. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2021, 62, 339-348. | 5.2 | 12 |
| 77 | Understanding the science-learning environment: A genetically sensitive approach. <i>Learning and Individual Differences</i> , 2013, 23, 145-150. | 2.7 | 11 |
| 78 | Hair Trace Element and Electrolyte Content in Women with Natural and In Vitro Fertilization-Induced Pregnancy. <i>Biological Trace Element Research</i> , 2018, 181, 1-9. | 3.5 | 11 |
| 79 | Prenatal testosterone does not explain sex differences in spatial ability. <i>Scientific Reports</i> , 2018, 8, 13653. | 3.3 | 11 |
| 80 | Twin classroom dilemma: To study together or separately?. <i>Developmental Psychology</i> , 2018, 54, 1244-1254. | 1.6 | 11 |
| 81 | Environmental exposures and their genetic or environmental contribution to depression and fatigue: a twin study in Sri Lanka. <i>BMC Psychiatry</i> , 2010, 10, 13. | 2.6 | 10 |
| 82 | Dysfunctional beliefs about sleep and insomnia symptoms in early adulthood: A twin and sibling study. <i>Journal of Sleep Research</i> , 2019, 28, e12834. | 3.2 | 10 |
| 83 | Etiological distinction of working memory components in relation to mathematics. <i>Intelligence</i> , 2014, 47, 54-62. | 3.0 | 8 |
| 84 | Judging in the genomic era: judges' genetic knowledge, confidence and need for training. <i>European Journal of Human Genetics</i> , 2020, 28, 1322-1330. | 2.8 | 8 |
| 85 | Measuring Spatial Ability for Talent Identification, Educational Assessment, and Support: Evidence from Adolescents with High Achievement in Science, Arts, and Sports. <i>Psychology in Russia: State of the Art</i> , 2021, 14, 59-85. | 0.6 | 8 |
| 86 | Genetic Literacy And Attitudes Survey (Iglas): International Population-Wide Assessment Instrument. , 0, , . | | 8 |
| 87 | The Jack and Jill Adaptive Working Memory Task: Construction, Calibration and Validation. <i>PLoS ONE</i> , 2022, 17, e0262200. | 2.5 | 8 |
| 88 | Persistent Genetic and Family-Wide Environmental Contributions to Early Number Knowledge and Later Achievement in Mathematics. <i>Psychological Science</i> , 2017, 28, 1707-1718. | 3.3 | 7 |
| 89 | What Do People Know About the Heritability of Sleep?. <i>Behavior Genetics</i> , 2021, 51, 144-153. | 2.1 | 7 |
| 90 | How Genetics Can Help Education. , 2016, , 1-23. | | 7 |

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|-----|---|-----|-----------|
| 91 | Genetic and Environmental Etiology of Nicotine Use in Sri Lankan Male Twins. <i>Behavior Genetics</i> , 2012, 42, 798-807. | 2.1 | 6 |
| 92 | The Russian School Twin Registry (RSTR): Project PROGRESS. <i>Twin Research and Human Genetics</i> , 2013, 16, 126-133. | 0.6 | 6 |
| 93 | Preschool Drawing and School Mathematics: The Nature of the Association. <i>Child Development</i> , 2016, 87, 929-943. | 3.0 | 6 |
| 94 | The nature of the association between number line and mathematical performance: An international twin study. <i>British Journal of Educational Psychology</i> , 2019, 89, 787-803. | 2.9 | 6 |
| 95 | The Etiology of Individual Differences in Maths beyond IQ: Insights from 12-year Old Twins. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 86, 429-434. | 0.5 | 5 |
| 96 | Rotation is visualisation, 3D is 2D: using a novel measure to investigate the genetics of spatial ability. <i>Scientific Reports</i> , 2016, 6, 30545. | 3.3 | 5 |
| 97 | Siblings' sex is linked to mental rotation performance in males but not females. <i>Intelligence</i> , 2016, 55, 38-43. | 3.0 | 5 |
| 98 | Toxicological and nutritional status of trace elements in hair of women with in vitro fertilization (IVF) pregnancy and their 9-month-old children. <i>Reproductive Toxicology</i> , 2018, 82, 50-56. | 2.9 | 5 |
| 99 | The Impact of Maternal Overweight on Hair Essential Trace Element and Mineral Content in Pregnant Women and Their Children. <i>Biological Trace Element Research</i> , 2020, 193, 64-72. | 3.5 | 5 |
| 100 | Creative expressiveness in childhood writing predicts educational achievement beyond motivation and intelligence: A longitudinal, genetically informed study. <i>British Journal of Educational Psychology</i> , 2021, 91, 1395-1413. | 2.9 | 5 |
| 101 | Effects Of Education And Media Framing On Genetic Knowledge And Attitudes. , 0, , . | | 5 |
| 102 | This is the way: Network perspective on targets for spatial ability development programmes. <i>British Journal of Educational Psychology</i> , 2022, 92, 1597-1620. | 2.9 | 5 |
| 103 | Genetics and genomics: good, bad and ugly. , 2012, , 155-173. | | 4 |
| 104 | Cognitive and Non-Cognitive Predictors of the Unified State Exam Performance of Students from Schools with Regular and Advanced Mathematical Curricula. <i>Psychology in Russia: State of the Art</i> , 2018, 11, 177-199. | 0.6 | 4 |
| 105 | Creative Storytelling In Childhood Is Related To Exam Performance At Age 16. , 0, , . | | 3 |
| 106 | Sex differences in the Dark Triad are sensitive to socioeconomic conditions: the adaptive value of narcissism in the UK, Greece, and China. <i>Current Psychology</i> , 2023, 42, 22436-22448. | 2.8 | 3 |
| 107 | Response to Marcus and Rabagliati â€œGenes and domain specificityâ€™. <i>Trends in Cognitive Sciences</i> , 2006, 10, 398. | 7.8 | 2 |
| 108 | Quantitative ultrasound of bone and calcium intake in suburban males in Sri Lanka. <i>International Journal of Rheumatic Diseases</i> , 2008, 11, 407-413. | 1.9 | 2 |

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|-----|---|-----|-----------|
| 109 | Probing the architecture of visual number sense with parietal tRNS. <i>Cortex</i> , 2019, 114, 54-66. | 2.4 | 2 |
| 110 | A relationship between the attitude to an unborn child and the relations between parents in the families with spontaneous and induced pregnancy. <i>Akusherstvo I Ginekologiya (Russian Federation)</i> , 2017, 10_2017, 78-83. | 0.3 | 2 |
| 111 | The impact of lifestyle factors on age-related differences in hair trace element content in pregnant women in the third trimester [pdf]. <i>Acta Scientiarum Polonorum, Technologia Alimentaria</i> , 2018, 17, 83-89. | 0.3 | 2 |
| 112 | A Mechanistic Study of the Association Between Symbolic Approximate Arithmetic Performance and Basic Number Magnitude Processing Based on Task Difficulty. <i>Frontiers in Psychology</i> , 2018, 9, 1551. | 2.1 | 1 |
| 113 | To Use or Not to Use: No Consensus on Whether and How to Apply Genetic Information in the Justice System. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2019, 9, 149. | 2.1 | 1 |
| 114 | Psychological characteristics of women undergoing an IVF treatment. <i>Voprosy Ginekologii, Akusherstva I Perinatologii</i> , 2016, 15, 23-30. | 0.3 | 1 |
| 115 | Studying Rare Genetic Syndromes as a Method of Investigating Aetiology of Normal Variation in Educationally Relevant Traits. , 2016, , 77-95. | | 1 |
| 116 | The impact of lifestyle factors on age-related differences in hair trace element content in pregnant women in the third trimester. <i>Acta Scientiarum Polonorum, Technologia Alimentaria</i> , 2018, 17, 83-89. | 0.3 | 1 |
| 117 | Early Predictors Of Creative Writing At Age 9. , 0, , . | | 1 |
| 118 | Prophesied Future and Redefined Past in the Genomic Era. , 2021, , 73-110. | | 1 |
| 119 | Individual Differences in Mathematics Ability. , 2016, , 299-323. | | 0 |
| 120 | Conclusion: Behavioural Genomics and Education. , 2016, , 269-276. | | 0 |
| 121 | From Rare Mutations to Normal Variation: Genetic Association Study of Mathematical, Spatial, and General Cognitive Abilities. <i>Psychology in Russia: State of the Art</i> , 2018, 11, 144-165. | 0.6 | 0 |
| 122 | Genes, Environments and Life Trajectories. , 2021, , 17-43. | | 0 |
| 123 | Individual differences in the number of mitochondrial DNA copies: the effect of socio-demographic factors. <i>Åkutschij Medicinskij Å¾urnal</i> , 2022, , 13-16. | 0.1 | 0 |