

David J Madden

List of Publications by Year in descending order

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102
papers

9,513
citations

57758

44
h-index

39675

94
g-index

104
all docs

104
docs citations

104
times ranked

10245
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Toward discovery science of human brain function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4734-4739. | 7.1 | 2,703 |
| 2 | Assessing the effects of age on long white matter tracts using diffusion tensor tractography. NeuroImage, 2009, 46, 530-541. | 4.2 | 406 |
| 3 | Age-related differences in multiple measures of white matter integrity: A diffusion tensor imaging study of healthy aging. Human Brain Mapping, 2010, 31, 378-390. | 3.6 | 396 |
| 4 | Cerebral White Matter Integrity and Cognitive Aging: Contributions from Diffusion Tensor Imaging. Neuropsychology Review, 2009, 19, 415-435. | 4.9 | 383 |
| 5 | Diffusion tensor imaging of cerebral white matter integrity in cognitive aging. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 386-400. | 3.8 | 380 |
| 6 | Diffusion tensor imaging of adult age differences in cerebral white matter: relation to response time. NeuroImage, 2004, 21, 1174-1181. | 4.2 | 322 |
| 7 | Adult age differences in the functional neuroanatomy of verbal recognition memory. Human Brain Mapping, 1999, 7, 115-135. | 3.6 | 263 |
| 8 | Cerebral White Matter Integrity Mediates Adult Age Differences in Cognitive Performance. Journal of Cognitive Neuroscience, 2008, 21, 289-302. | 2.3 | 228 |
| 9 | Adult age differences in the functional neuroanatomy of visual attention: A combined fMRI and DTI study. Neurobiology of Aging, 2007, 28, 459-476. | 3.1 | 200 |
| 10 | Ageing and Visual Attention. Current Directions in Psychological Science, 2007, 16, 70-74. | 5.3 | 185 |
| 11 | Age-related slowing of memory retrieval: Contributions of perceptual speed and cerebral white matter integrity. Neurobiology of Aging, 2008, 29, 1070-1079. | 3.1 | 178 |
| 12 | The Architecture of Cross-Hemispheric Communication in the Aging Brain: Linking Behavior to Functional and Structural Connectivity. Cerebral Cortex, 2012, 22, 232-242. | 2.9 | 150 |
| 13 | Adult age differences in functional connectivity during executive control. NeuroImage, 2010, 52, 643-657. | 4.2 | 149 |
| 14 | Improving aerobic capacity in healthy older adults does not necessarily lead to improved cognitive performance.. Psychology and Aging, 1989, 4, 307-320. | 1.6 | 139 |
| 15 | A diffusion model analysis of adult age differences in episodic and semantic long-term memory retrieval.. Journal of Experimental Psychology: Learning Memory and Cognition, 2006, 32, 101-117. | 0.9 | 131 |
| 16 | White matter integrity correlates of implicit sequence learning in healthy aging. Neurobiology of Aging, 2011, 32, 2317.e1-2317.e12. | 3.1 | 102 |
| 17 | Influence of age and processing stage on visual word recognition.. Psychology and Aging, 1993, 8, 274-282. | 1.6 | 99 |
| 18 | Adult age differences in the effects of sentence context and stimulus degradation during visual word recognition.. Psychology and Aging, 1988, 3, 167-172. | 1.6 | 97 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Age-related slowing and the time course of semantic priming in visual word identification.. Psychology and Aging, 1993, 8, 490-507. | 1.6 | 87 |
| 20 | Selective and divided visual attention: Age-related changes in regional cerebral blood flow measured by H215O PET. , 1997, 5, 389-409. | | 86 |
| 21 | Age-related Changes in Neural Activity during Visual Target Detection Measured by fMRI. Cerebral Cortex, 2004, 14, 143-155. | 2.9 | 85 |
| 22 | Brain Connectivity and Visual Attention. Brain Connectivity, 2013, 3, 317-338. | 1.7 | 84 |
| 23 | Adult age differences in attentional allocation during memory search.. Psychology and Aging, 1992, 7, 594-601. | 1.6 | 83 |
| 24 | Linking cognitive and visual perceptual decline in healthy aging: The information degradation hypothesis. Neuroscience and Biobehavioral Reviews, 2016, 69, 166-173. | 6.1 | 80 |
| 25 | Aging and distraction by highly familiar stimuli during visual search.. Developmental Psychology, 1983, 19, 499-507. | 1.6 | 74 |
| 26 | Adult Age Differences in Visual Acuity, Stereopsis, and Contrast Sensitivity. Optometry and Vision Science, 1987, 64, 749-753. | 1.2 | 74 |
| 27 | Aging and Recognition Memory: Changes in Regional Cerebral Blood Flow Associated with Components of Reaction Time Distributions. Journal of Cognitive Neuroscience, 1999, 11, 511-520. | 2.3 | 74 |
| 28 | Adult Age Differences in the Attentional Capacity Demands of Visual Search. Cognitive Development, 1986, 1, 335-363. | 1.3 | 71 |
| 29 | Aging and attentional guidance during visual search: Functional neuroanatomy by positron emission tomography.. Psychology and Aging, 2002, 17, 24-43. | 1.6 | 71 |
| 30 | Age-Related Preservation of Top-Down Attentional Guidance During Visual Search.. Psychology and Aging, 2004, 19, 304-309. | 1.6 | 68 |
| 31 | Different patterns of cognitive slowing produced by Alzheimer's disease and normal aging.. Psychology and Aging, 1988, 3, 102-104. | 1.6 | 67 |
| 32 | Adult age differences in letter-level and word-level processing.. Psychology and Aging, 1991, 6, 261-271. | 1.6 | 67 |
| 33 | Effects of Exercise Training on Cognitive Functioning among Depressed Older Men and Women. Journal of Aging and Physical Activity, 2001, 9, 43-57. | 1.0 | 65 |
| 34 | Adult age differences in attentional selectivity and capacity. European Journal of Cognitive Psychology, 1990, 2, 229-252. | 1.3 | 59 |
| 35 | Adult age differences in the use of distractor homogeneity during visual search.. Psychology and Aging, 1996, 11, 454-474. | 1.6 | 59 |
| 36 | Aging and the development of automaticity in visual search.. Developmental Psychology, 1980, 16, 377-384. | 1.6 | 58 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Effects of Adult Age and Blood Pressure on Executive Function and Speed of Processing. <i>Experimental Aging Research</i> , 2010, 36, 153-168. | 1.2 | 58 |
| 38 | Selective attention and visual search: Revision of an allocation model and application to age differences.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1992, 18, 821-836. | 0.9 | 56 |
| 39 | Adult age differences in visual search accuracy: Attentional guidance and target detectability.. <i>Psychology and Aging</i> , 1999, 14, 683-694. | 1.6 | 54 |
| 40 | Measurement of spontaneous signal fluctuations in fMRI: adult age differences in intrinsic functional connectivity. <i>Brain Structure and Function</i> , 2009, 213, 571-585. | 2.3 | 52 |
| 41 | Age differences and similarities in the improvement of controlled search. <i>Experimental Aging Research</i> , 1982, 8, 91-98. | 1.2 | 51 |
| 42 | Sources of disconnection in neurocognitive aging: cerebral white-matter integrity, resting-state functional connectivity, and white-matter hyperintensity volume. <i>Neurobiology of Aging</i> , 2017, 54, 199-213. | 3.1 | 50 |
| 43 | Effects of Exercise Training on Bone Density in Older Men and Women. <i>Journal of the American Geriatrics Society</i> , 1991, 39, 1065-1070. | 2.6 | 49 |
| 44 | Age-related changes in selective attention and perceptual load during visual search.. <i>Psychology and Aging</i> , 2003, 18, 54-67. | 1.6 | 48 |
| 45 | Searching from the Top Down: Ageing and Attentional Guidance during Singleton Detection. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2005, 58, 72-97. | 2.3 | 47 |
| 46 | Adult age differences in visual word recognition: Semantic encoding and episodic retention. <i>Experimental Aging Research</i> , 1986, 12, 71-78. | 1.2 | 45 |
| 47 | Adult age differences in strategic and dynamic components of focusing visual attention. <i>Aging, Neuropsychology, and Cognition</i> , 1997, 4, 185-210. | 1.3 | 45 |
| 48 | Adult Age Differences in Visual Word Identification: Functional Neuroanatomy by Positron Emission Tomography. <i>Brain and Cognition</i> , 2002, 49, 297-321. | 1.8 | 45 |
| 49 | Aging and attentional guidance during visual search: Functional neuroanatomy by positron emission tomography.. <i>Psychology and Aging</i> , 2002, 17, 24-43. | 1.6 | 44 |
| 50 | Visual word identification and age-related slowing. <i>Cognitive Development</i> , 1989, 4, 1-29. | 1.3 | 42 |
| 51 | Adult age differences in shifting focused attention.. <i>Psychology and Aging</i> , 1994, 9, 528-538. | 1.6 | 41 |
| 52 | Association between increased magnetic susceptibility of deep gray matter nuclei and decreased motor function in healthy adults. <i>NeuroImage</i> , 2015, 105, 45-52. | 4.2 | 41 |
| 53 | Functional neuroimaging of memory: Implications for cognitive aging. <i>Microscopy Research and Technique</i> , 2000, 51, 75-84. | 2.2 | 38 |
| 54 | Adult Age Differences in the Implicit and Explicit Components of Top-Down Attentional Guidance During Visual Search.. <i>Psychology and Aging</i> , 2005, 20, 317-329. | 1.6 | 38 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Differential Age Effects in Semantic and Episodic Memory. <i>Journals of Gerontology - Series B Psychological Sciences and Social Sciences</i> , 2002, 57, P173-P186. | 3.9 | 37 |
| 56 | The use of focused attention in visual search by young and old adults. <i>Experimental Aging Research</i> , 1983, 9, 139-143. | 1.2 | 36 |
| 57 | Slowing of memory-search performance in men with mild hypertension.. <i>Health Psychology</i> , 1989, 8, 131-142. | 1.6 | 34 |
| 58 | Evidence for a parallel input serial analysis model of word processing.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1990, 16, 48-64. | 0.9 | 33 |
| 59 | Interaction of hypertension and age in visual selective attention performance.. <i>Health Psychology</i> , 1998, 17, 76-83. | 1.6 | 33 |
| 60 | Overriding age differences in attentional capture with top-down processing.. <i>Psychology and Aging</i> , 2007, 22, 223-232. | 1.6 | 33 |
| 61 | The effect of age on hemispheric asymmetry in visual and auditory identification. <i>Experimental Aging Research</i> , 1983, 9, 87-91. | 1.2 | 31 |
| 62 | Short-term behavioral effects of beta-adrenergic medications in men with mild hypertension. <i>Clinical Pharmacology and Therapeutics</i> , 1988, 43, 429-435. | 4.7 | 31 |
| 63 | Maintenance and Representation of Mind Wandering during Resting-State fMRI. <i>Scientific Reports</i> , 2017, 7, 40722. | 3.3 | 30 |
| 64 | Age mediation of frontoparietal activation during visual feature search. <i>NeuroImage</i> , 2014, 102, 262-274. | 4.2 | 28 |
| 65 | Functional modular architecture underlying attentional control in aging. <i>NeuroImage</i> , 2017, 155, 257-270. | 4.2 | 28 |
| 66 | Influence of structural and functional brain connectivity on age-related differences in fluid cognition. <i>Neurobiology of Aging</i> , 2020, 96, 205-222. | 3.1 | 28 |
| 67 | Age-related changes in visual attention. <i>Advances in Cell Aging and Gerontology</i> , 2003, 15, 41-88. | 0.1 | 27 |
| 68 | Aging, attention, and the use of meaning during visual search. <i>Cognitive Development</i> , 1987, 2, 201-216. | 1.3 | 26 |
| 69 | Memory performance by mild hypertensives following beta-adrenergic blockade. <i>Psychopharmacology</i> , 1986, 89, 20-4. | 3.1 | 23 |
| 70 | Age Differences in the Strategic Allocation of Visual Attention. <i>Journals of Gerontology - Series B Psychological Sciences and Social Sciences</i> , 1999, 54B, P165-P172. | 3.9 | 22 |
| 71 | Global versus tract-specific components of cerebral white matter integrity: relation to adult age and perceptual-motor speed. <i>Brain Structure and Function</i> , 2015, 220, 2705-2720. | 2.3 | 22 |
| 72 | Visual word encoding and the effect of adult age and word frequency. <i>Advances in Psychology</i> , 1995, , 30-71. | 0.1 | 21 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Age-related increase in top-down activation of visual features. Quarterly Journal of Experimental Psychology, 2007, 60, 644-651. | 1.1 | 21 |
| 74 | Adult age differences in the attentional capacity demands of letter matching. Experimental Aging Research, 1987, 13, 93-99. | 1.2 | 20 |
| 75 | Task Complexity and Signal Detection Analyses of Lexical Decision Performance in Alzheimer's Disease. Developmental Neuropsychology, 1999, 16, 1-18. | 1.4 | 20 |
| 76 | Frontoparietal activation during visual conjunction search: Effects of bottom-up guidance and adult age. Human Brain Mapping, 2017, 38, 2128-2149. | 3.6 | 18 |
| 77 | Cognitive slowing in Alzheimer's disease as a function of task type and response type. Developmental Neuropsychology, 1992, 8, 459-471. | 1.4 | 17 |
| 78 | Influence of Encoding Difficulty, Word Frequency, and Phonological Regularity on Age Differences in Word Naming. Experimental Aging Research, 2011, 37, 261-292. | 1.2 | 16 |
| 79 | Task difficulty modulates brain activation in the emotional oddball task. Brain Research, 2017, 1664, 74-86. | 2.2 | 16 |
| 80 | Adult age differences in memory-driven selective attention.. Developmental Psychology, 1985, 21, 655-665. | 1.6 | 15 |
| 81 | Differential age effects for case and hue mixing in visual word recognition.. Psychology and Aging, 2002, 17, 622-635. | 1.6 | 15 |
| 82 | Aging and the Speed/Accuracy Relation in Visual Search: Evidence for an Accumulator Model. Optometry and Vision Science, 1995, 72, 210-216. | 1.2 | 14 |
| 83 | Language processing in age-related macular degeneration associated with unique functional connectivity signatures in the right hemisphere. Neurobiology of Aging, 2018, 63, 65-74. | 3.1 | 13 |
| 84 | Cortical iron mediates age-related decline in fluid cognition. Human Brain Mapping, 2022, 43, 1047-1060. | 3.6 | 12 |
| 85 | Cerebral white matter connectivity, cognition, and age-related macular degeneration. NeuroImage: Clinical, 2021, 30, 102594. | 2.7 | 11 |
| 86 | Adult age differences in the effects of word frequency during visual letter identification. Cognitive Development, 1989, 4, 283-294. | 1.3 | 10 |
| 87 | From retina to response: Contrast sensitivity and memory retrieval during visual word recognition. Experimental Aging Research, 1987, 13, 15-21. | 1.2 | 9 |
| 88 | Age Differences in Short-term Memory: Organization or Internal Noise?. Journal of Gerontology, 1992, 47, P281-P288. | 1.9 | 9 |
| 89 | Visual Acuity does not Moderate Effect Sizes of Higher-Level Cognitive Tasks. Experimental Aging Research, 2016, 42, 221-263. | 1.2 | 9 |
| 90 | Age-Related Changes in Neural Activity During Visual Perception and Attention. , 2004, , 157-185. | | 9 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Adult age differences in long-term semantic priming. <i>Experimental Aging Research</i> , 1997, 23, 107-135. | 1.2 | 8 |
| 92 | Interaction of Blood Pressure and Adult Age in Memory Search and Visual Search Performance. <i>Aging, Neuropsychology, and Cognition</i> , 2003, 10, 241-254. | 1.3 | 8 |
| 93 | Response-level processing during visual feature search: Effects of frontoparietal activation and adult age. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 330-349. | 1.3 | 8 |
| 94 | Amount and duration of attentional demands during visual search. <i>Perception & Psychophysics</i> , 1989, 45, 577-585. | 2.3 | 6 |
| 95 | Age similarities in the inertial properties of attention. <i>Perception & Psychophysics</i> , 1999, 61, 740-755. | 2.3 | 6 |
| 96 | Adult Age Invariance in Sentence Unitization. <i>Aging, Neuropsychology, and Cognition</i> , 2000, 7, 54-67. | 1.3 | 6 |
| 97 | Changes in Brain Resting-state Functional Connectivity Associated with Peripheral Nerve Block. <i>Anesthesiology</i> , 2016, 125, 368-377. | 2.5 | 6 |
| 98 | Introduction. <i>Microscopy Research and Technique</i> , 2000, 51, 1-5. | 2.2 | 5 |
| 99 | Relationship between neural functional connectivity and memory performance in age-related macular degeneration. <i>Neurobiology of Aging</i> , 2020, 95, 176-185. | 3.1 | 5 |
| 100 | Neural activation for actual and imagined movement following unilateral hand transplantation: a case study. <i>Neurocase</i> , 2019, 25, 225-234. | 0.6 | 3 |
| 101 | Benign Senescent Forgetfulness, Age-associated Memory Impairment, and Age-related Cognitive Decline. , 0, , 303-304. | | 2 |
| 102 | Cerebral White Matter Mediation of Age-Related Differences in Picture Naming Across Adulthood. <i>Neurobiology of Language (Cambridge, Mass)</i> , 2022, 3, 272-286. | 3.1 | 2 |