

## Professor Alexander McBratney

Professor of Soil Science,  
Dean, Faculty of Agriculture & Environment,  
The University of Sydney  
C81 – ATP – The Biomedical Building  
NSW 2006

Australia

Tel: +61 2 8627 1130

Email: [alex.mcbratney@sydney.edu.au](mailto:alex.mcbratney@sydney.edu.au)

Homepage: [http://sydney.edu.au/agriculture/academic\\_staff/alex.mcbratney.php](http://sydney.edu.au/agriculture/academic_staff/alex.mcbratney.php)

### Education background

University of Aberdeen, Scotland

Soil Science **BSc** 1977

University of Aberdeen, Scotland

Soil Science **PhD** 1985

University of Aberdeen, Scotland

Soil Science **DSc** 2001

University of Sydney, Australia

Precision Agriculture **DScAgr** 2012

### Career path

2015 - Dean, Faculty of Agriculture & Environment, The University of Sydney

1994- Professor of Soil Science The University of Sydney

1989-1994 Associate Professor in Soil Science The University of Sydney

1989 Associate Professor in Geostatistics The University of Sydney

1981-1988 Research Scientist, CSIRO Division of Soils, Brisbane

### Research interests

Soil science, pedometrics, precision agriculture

### Associations

- Alex is Chair of Editors-in-Chief of the global soil science journal, *Geoderma* and the co-edits Kluwer's *Progress in Soil Science* book series.
- Alex was the Deputy Secretary General of the International Union of Soil Sciences (2010-2014)
- Alex is the Chair of the Scientific Committee for GlobalSoilMap project

### Research Supervision

- Supervised 30 PhD students as principal supervisor, currently have 6 PhD candidates. Supervised and sponsored fourteen postdoctoral fellows, currently four.

### Awards

- 2014 V.V. Dokuchaev Medal in Soil Science from the International Union of Soil Sciences.
- 2008 J.K. Taylor Medal, Australian Society of Soil Science
- 2006 Richard Webster Medal, International Society of Soil Sciences
- 2004 Prescott medal, Australian Society of Soil Science



## Selected projects

Alex holds Discovery and Linkage grants from the Australian Research Council, United States Department of Agriculture, Australian DAFF, and several from the rural research and development corporations, most notably the Grains Research and Development Corporation. Alex has also participated in two EU FP7 projects.

### 2015

- *Optimised field delineation of contaminated soils*; McBratney A, Minasny B, Malone B; Bishop, T, Horta A. Australian Research Council (ARC)/Linkage Projects (LP 150100566).

### 2014

- *A general soil spatial scaling theory*; McBratney A, Minasny B, Malone B; Australian Research Council (ARC)/Discovery Projects (DP).

### 2013

- *Enhancing human capacity for soil knowledge transfer and decision making for a sustainable grains industry*; McBratney A, Field D; Grains Research and Development Corporation/Research Support.
- *Farm scale assessment of SOC from disaggregated national/regional scale models*; McBratney A, Minasny B, Malone B; Department of Agriculture, Fisheries and Forestry (Federal)/Carbon Farming Futures - Filling the Research Gap Program.
- *Methane and nitrous oxide in agro-ecological systems: novel technologies and understandings to improve ecosystem management.*; Adams M, McBratney A, Barbour M, Whitehead D, Laubach J, Millard P, Jacobson G, Rella C, Crosson E; Australian Research Council (ARC)/Linkage Projects (LP).
- *Csecure - Assessment of soil carbon security using emerging techniques in hyperspectral imaging, X-ray fluorescence and pedometrics*; McBratney A, O'Rourke S; European Commission (Belgium)/Marie Curie Outgoing International Fellowship.

### 2012

- *Methane and nitrous oxide in agro-ecological systems: novel technologies and understandings to improve ecosystem management.*; Whitehead D, Laubach J, Millard P, Jacobson G, Adams M, McBratney A, Barbour M; BMedical Pty Ltd/ActiCal Equipment Grant.
- *Improved carbon and greenhouse gas outcomes through better understanding and management of soils and plant inputs at the farm scale*; Minasny B, Adams M, McBratney A, Barbour M; Department of Agriculture, Fisheries and Forestry (Federal)/Carbon Farming Futures Action on the Ground.
- *The soil and landscape inference for Australia*; McBratney A, Minasny B; Commonwealth Scientific and Industrial Research Organisation/Research Support.
- *Global space-time soil carbon assessment*; McBratney A; Australian Research Council (ARC)/Discovery Projects (DP).
- *Terrestrial Ecosystem Research Network - Soil and landscape grid of Australia*; McBratney A, Minasny B; Commonwealth Scientific and Industrial Research Organisation/Terrestrial Ecosystem Research Network - Services Agreement.

## 2011

- *Wealth from Water - Soil information for new sustainable irrigated agriculture in Tasmania*; McBratney A, Minasny B; Australian Research Council (ARC)/Linkage Projects (LP).
- *U.S. Soil Carbon Assessment*; McBratney A, Minasny B; US Department of Agriculture (USA)/Research Support.
- *A next generation spatially distributed model for soil profile dynamics and pedogenesis incorporating soil geochemistry and organic matter*; Willgoose G, McBratney A, Hancock G, Minasny B, Cohen S; Australian Research Council (ARC)/Discovery Projects (DP).
- *LNK: 2011/Round2/ARC LP110200731, Wealth from water: soil information for new sustainable irrigated*; Minasny B, McBratney A; Department of Primary Industries, Parks, Water and Environment,(TAS)/Project Support.
- *INCA: IN-field spectroscopy for Carbon Accounting*; McBratney A, Bellon-Maurel V; French Environment and Energy Management Agency/Research Support.
- *Developing the components of GlobalSoilMap.net in Oceania - an intensive workshop in Bogor, Indonesia*; McBratney A; CSIRO Sustainable Agriculture Flagship/Research Support.

## 2010

- *Designing and implementing a monitoring scheme for evaluating soil sustainability on the university farm at Nowley at the Liverpool Plains*; McBratney A, Brus D; DVC Research/International Visiting Research Fellowship (IVRF).
- *The link between soil structure, microbial diversity and the rate of carbon sequestration*; McBratney A, Smith R, Nunan N, Minasny B, Crawford J; Department of Innovation, Industry, Science and Research (Federal)/International Science Linkages (ISL) Competitive Grants.
- *Improved seasonal rainfall prediction for grain growers using farm level data and novel modelling*; Clarke B, Taylor E, Vervoort R, Minasny B, McBratney A; Australian Research Council (ARC)/Linkage Projects (LP).

## Selected Publications

According to Google Scholar, Alex has published some 400 scientific articles with an h-index of 70 and an i-10 index of 230. A full list of his publications and citations can be found at <http://scholar.google.com.au/citations?user=0FnTDAsAAAAJ&hl=en> Alternatively, according to the ISI Web of Science , Alex. has published 364 articles with an h-index of 52.

### Edited Books

- Arrouays, D., McKenzie, N., Hempel, J., de Forges, A.R., McBratney A. (2014) *GlobalSoilMap Basis of the Global Spatial Soil Information System*. Leiden, The Netherlands: CRC Press.
  - Minasny, B., Malone, B., McBratney, A. (2012). *Digital Soil Assessments and Beyond*. Leiden, The Netherlands: CRC Press.
  - Viscarra Rossel, R., McBratney, A., Minasny, B. (2010). *Proximal Soil Sensing*. Dordrecht Heidelberg London New York: Springer Science + Business Media.
  - McBratney, A. (2008). *Digital Soil Mapping with Limited Data*. Germany: Springer.
  - Lagacherie, P., McBratney, A., Voltz, M. (2007). *Digital Soil Mapping: An Introductory*
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*Perspective*. Amsterdam, Netherlands: Elsevier.

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**Book  
Chapters**

- Arrouays, D., McBratney, A., Minasny, B., Hempel, J.W., Heuvelink, J.B.M., MacMillan, R.A., Hartemink, A.E., Lagacherie, P., McKenzie, N.J., (2014) The GlobalSoilMap project specifications. In Arrouays, D., McKenzie, N., Hempel, J., de Forges, A.R., McBratney A. (Eds) *GlobalSoilMap Basis of the Global Spatial Soil Information System*. (pp. 9-13) Leiden, The Netherlands: CRC Press.
- McBratney, A., Stockmann, U., Angers, D.A., Minasny, B., Field, D.J. (2014) Challenges for soil organic carbon research. In Alfred E. Hartemink & Kevin McSweeney (Eds.) (pp. 3-16) *Soil Carbon*. New York: Springer.
- Hughes, P., McBratney, A., Malone, B., Minasny, B. (2012). Development of terrons for the Lower Hunter Valley wine-growing region. In Budiman Minasny, Brendan P. Malone, Alex B. McBratney (Eds.), *Digital Soil Assessments and Beyond*, (pp. 31-36). Leiden, The Netherlands: CRC Press.
- Kidd, D., Webb, M., Grose, C., Moreton, R., Malone, B., McBratney, A., Minasny, B., Viscarra Rossel, R., Cotching, W., Sparrow, L., et al (2012). Digital soil assessment: Guiding irrigation expansion in Tasmania, Australia. In Budiman Minasny, Brendan P. Malone, Alex B. McBratney (Eds.), *Digital Soil Assessments and Beyond*, (pp. 3-8). Leiden, The Netherlands: CRC Press.
- McBratney, A., Minasny, B., MacMillan, R., Carre, F. (2012). Digital Soil Mapping. In Pan Ming Huang, Yuncong Li, Malcolm E. Sumner et al. (Eds.), *Handbook of Soil Sciences Properties and Processes*, (pp. 37-1-37-43). Florida, United States of America: CRC Press.

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**Journal  
papers**

- Stockmann, U., Minasny, B., McBratney, A. (2014). How fast does soil grow? *Geoderma*, 216, 48-61.
  - McBratney, A., Field, D., Koch, A. (2014). The dimensions of soil security. *Geoderma*, 213, 203-213.
  - Stockmann, U., Adams, M.A., Crawford, J.W., Field, D.J., Henakaarchchi, N., Jenkins, M., Minasny, B., McBratney, A.B., de Courcelles, V. de R., Singh, K., Wheeler, I., Abbott, L., Angers, D.A., Baldock, B., Bird, M., Brookes, P.C., Chenu, C., Jastrow, J.D., Lal, R., Lehmann, J., O'Donnell, A.G., Parton, W.J., Whitehead, D., Zimmermann, M., (2013). The knowns, known unknowns and unknowns of sequestration of soil organic carbon, *Agriculture, Ecosystems & Environment* 164, 80-99.
  - Bouma, J., McBratney, A., (2013) Framing soils as an actor when dealing with global environmental problems. *Geoderma* 200-201, 130-139.
  - Minasny, B., McBratney, A., Malone, B., Wheeler, I. (2013). Digital Mapping of Soil Carbon. *Advances in Agronomy*, 118, 1-47.
  - Hill, R., Crawford, J., Minasny, B., Lal, R., Abbott, L., O'Donnell, A., et al (2013). Soil Security: Solving the Global Soil Crisis. *Global Policy*, 4(4), 434-441.
  - McBratney, A., Minasny, B. (2013). Spacebender. *Spatial Statistics*, 4, 57-67.
  - Marchant, B., McBratney, A., Lark, R., Minasny, B. (2013). Optimized multi-phase sampling for soil remediation survey. *Spatial Statistics*, 4, 1-13.
  - Minasny, B., McBratney, A., Hong, S., Sulaeman, Y., Kim, M., Zhang, Y., Kim, Y., Han, K. (2012). Continuous rice cropping has been sequestering carbon in soils in Java and South Korea for the past 30 years. *Global Biogeochemical Cycles: an international journal of global change*, 26(3), 1-8.
  - Odgers, N., McBratney, A., Minasny, B. (2011). Bottom-up digital soil mapping. I. Soil layer classes. *Geoderma*, 163(1-2), 38-44.
  - Odgers, N., McBratney, A., Minasny, B. (2011). Bottom-up digital soil mapping. II. Soil series classes. *Geoderma*, 163(1-2), 30-37.
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More details can be found at [http://sydney.edu.au/agriculture/academic\\_staff/alex.mcbratney.php](http://sydney.edu.au/agriculture/academic_staff/alex.mcbratney.php)

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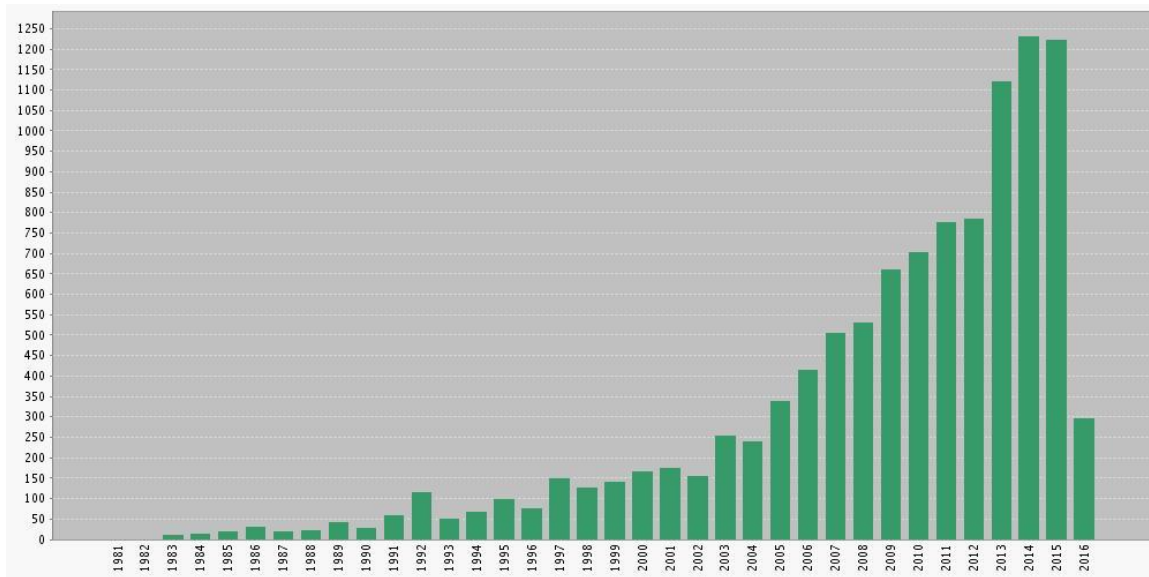
2/03/2016

***List of published scientific works of A.B. McBratney  
(1981-)***

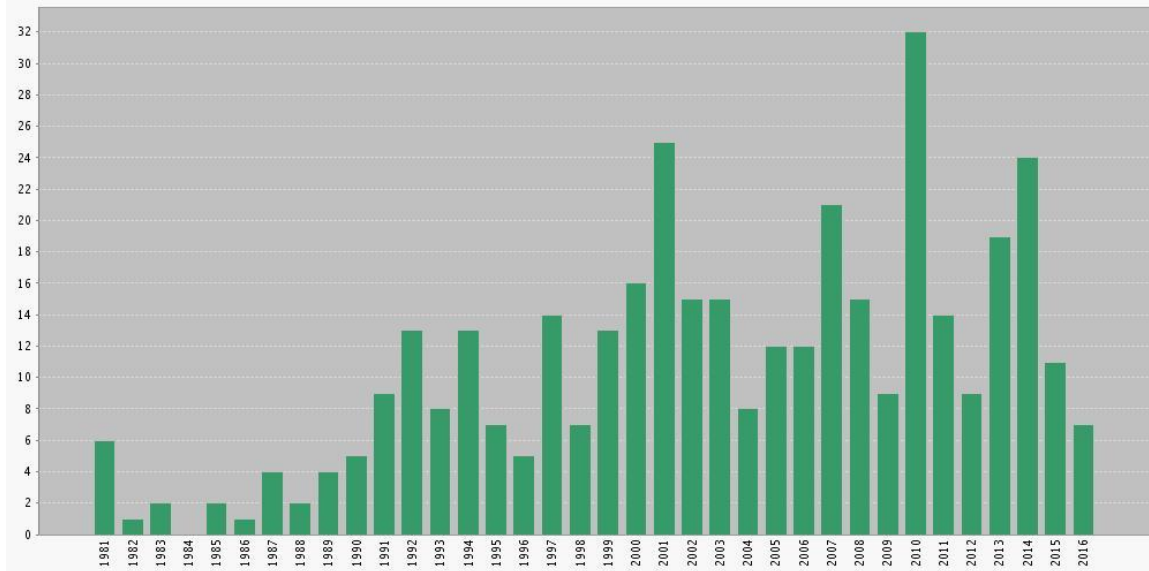
**Total Citations (1981-) (at March 2 2016)**

Source	No of publications	Total cites	Average citations per article	h-index	i-10
<b>Web of Science</b>	379	10709	28.3	55	176
<b>Google Scholar</b>	582	20068	34.5	75	254

**Citations in each year** (Web of Science March 2 2016)



**Publications in each year 1981-** (Web of Science March 2 2016)



## (z) Patents

Applicant: The University of Sydney

Authors: McBratney et al.,

**Australia - Granted Patent No. 2011261179**

Canada - Application No. 2,801,379, currently under examination

Europe - Application No. 11788990.7

South Africa - Application No. 2012/09641, allowed/accepted, patent pending

USA - Application No. 13/701,786

Title: A Method of Quantifying Soil Carbon

## (a) Books

- (a9) D. Arrouays, N. McKenzie, J. Hempel, A. Richer de Forges, A.B. McBratney.(eds) 2014. GlobalSoilMap: Basis of the global spatial soil information system. CRC Press/Balkema, Leiden. 494 pp.
- (a8) B. Minasny, **A.B. McBratney** & B. Malone (eds) 2012. Digital Soil Assessments and Beyond. CRC Press/Balkema, Leiden. 466 pp.
- (a7) R.A. Viscarra Rossel, **A.B. McBratney** & B. Minasny (eds) 2010. Proximal Soil Sensing. Springer, Heidelberg. 446 pp.
- (a6) A.E. Hartemink, **A.B. McBratney** & R.E. White (Eds) 2009 Soil Science Vol. IV The Role of Soils in Sustaining Society and the Environment. Earthscan, London. 270 pp.
- (a5) A.E. Hartemink, **A.B. McBratney** & R.E. White (Eds) 2009 Soil Science Vol. III Soil Use and Management. Earthscan, London. 328 pp.
- (a4) A.E. Hartemink, **A.B. McBratney** & R.E. White (Eds) 2009 Soil Science Vol. II Soil Properties and Processes. Earthscan, London. 641 pp.
- (a3) A.E. Hartemink, **A.B. McBratney** & R.E. White (Eds) 2009 Soil Science Vol. I Soil in Space and Time. Earthscan, London 428 pp.

- (a2) A.E. Hartemink, **A.B. M<sup>e</sup>Bratney** & M.L. Mendonça Santos (eds) 2008. Digital Soil Mapping with Limited Data. Springer, Heidelberg. 445 pp.
- (a1) P. Lagacherie, **A.B. M<sup>e</sup>Bratney** & M. Voltz (eds) 2007. Digital Soil Mapping: An Introductory Perspective. Developments in Soil Science 31. Elsevier, Amsterdam. 600 pp.

### (b) Reports & Special Issues

- (b13) James Taylor, **Alex. B. M<sup>e</sup>Bratney** & Sam. Hedges 2008. Understanding Spatial Variation in Sweetcorn Production. Horticulture Australia Ltd, Sydney, NSW, Australia. 58 pp. (Report project VG07035)
- (b12) Craig Stewart, Broughton Boydell & **Alex. B. M<sup>e</sup>Bratney** 2005. Precision Decisions for Quality Cotton: A Guide to Site-Specific Cotton Crop Management. Cotton Research & Development Corporation, Narrabri, NSW, Australia. 105 pp.
- (b11) Budiman Minasny, **Alex. B. M<sup>e</sup>Bratney**, Maria de Lourdes Mendonça-Santos & Humberto Gonçalves dos Santos 2003. Revisão sobre Funções de Pedotransferência (PTFs) e Novos Métodos de Predição de Classes e Atributos do Solo (in Portuguese), Documentos 45, Embrapa Solos, Rio de Janeiro, RJ, Brazil. 50 pp.
- (b10) Inakwu O. A. Odeh and **Alex M<sup>e</sup>Bratney** (eds) 2001. Estimating uncertainty in soil models (Pedometrics '99), Geoderma **103**, Issues 1-2, Pages 1-229 (September 2001)
- (b9) Alfred E. Hartemink and **Alex M<sup>e</sup>Bratney** (eds) 2001. 100 volumes of Geoderma (1967-2001), Geoderma **100**, Issues 3-4, Pages 215-428 (May 2001)
- (b8) Mary Collins, **Alex M<sup>e</sup>Bratney**, Marc Voltz and Christian Walter. (2000). Developments in quantitative soil resource assessment (Pedometrics '98). Geoderma **97**, Issues 3-4, Pages 147-422 (September 2000)
- (b7) J.J. de Gruijter, and **A.B. M<sup>e</sup>Bratney** and K. McSweeney (eds) 1997. Fuzzy sets in soil science. (ISSS WG-PM / SSSA Division S5 Symposium, October 30, 1995), Geoderma **77**, Issues 2-4, Pages 83-341 (June 1997).
- (b6) **A.B. M<sup>e</sup>Bratney**, and B.M. Whelan (1995). *The Potential for Site-specific Management of Cotton Farming Systems*. Discussion Paper No 1. 46pp. Co-operative Research Centre for Sustainable Cotton Production, Australian Cotton Research Institute, PO Box 59, Narrabri, NSW 2390.\*\*
- (b5) J. Triantafilis and **A.B. M<sup>e</sup>Bratney** (1993). *Application of continuous methods of soil classification and land suitability assessment in the lower Namoi valley*. Division of Soils Divisional Report 121, CSIRO Australia, Melbourne. 173 pp.\*\*
- (b4) A.W. Ward, W.T. Ward, **A.B. M<sup>e</sup>Bratney** and J.J. de Gruijter (1992). *MacFUZZY A program for data analysis by generalised fuzzy k-means on the Macintosh*. Division of Soils Divisional Report 116, CSIRO Australia, Melbourne. 49 pp. + disk.\*
- (b3) **A.B. M<sup>e</sup>Bratney**, S.R. Cattle, J.B. Stewart, P.E. Tolmie, J. Walsh, D.B. Yates, S. Young and K.L. Elton (1991). *The Soil Stack: an Interactive Introductory Guide to the Science, Technology, Degradation, Management and Care of Soil*. Environmental Education Program, University of Sydney. 40 pp. + 4 disks. \*\*
- (b2) C.J. Moran, **A.B. M<sup>e</sup>Bratney** and A.J. Koppi (1990). *The SOLICON soil imaging system: a description of the software*. Division of Soils Divisional Report 110, CSIRO Australia, Melbourne. 134pp.\*\*



- (b1) D. McGarry, W.T. Ward and **A.B. McBratney** (1989). *Soil studies in the lower Namoi valley: methods and data. 1: The Edgeroi data set.* 2 vols. CSIRO Australia, Division of Soils, Glen Osmond, South Australia. 852 pp. \*\*

### (c) Book Chapters

- (c72) Pallasser, R., Minasny, B., **McBratney, A.** (2014). A Novel Method for Measurement of Carbon on Whole Soil Cores. In Alfred E. Hartemink, Kevin McSweeney (Eds.), *Soil Carbon*, (pp. 69-76). New York: Springer.
- (c71) **McBratney, A.**, Stockmann, U., Angers, D., Minasny, B., Field, D. (2014). Challenges for Soil Organic Carbon Research. In Alfred E. Hartemink, Kevin McSweeney (Eds.), *Soil Carbon*, (pp. 3-16). New York: Springer.
- (c70) Odgers, N., **McBratney, A.**, Minasny, B. (2014). Digital soil property mapping and uncertainty estimation using soil class probability rasters. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 341-346). London: CRC Press. [More Information]
- (c69) Odgers, N., **McBratney, A.**, Minasny, B., Sun, W., Clifford, D. (2014). DSMART: An algorithm to spatially disaggregate soil map units. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 261-266). London: CRC Press.
- (c68) Hempel, J., **McBratney, A.**, Arrouays, D., McKenzie, N., Hartemink, A., Grundy, M., Greve, M., Hong, S., Lelyk, G., Libohova, Z. (2014). GlobalSoilMap and Global Carbon Predictions. In Alfred E. Hartemink, Kevin McSweeney (Eds.), *Soil Carbon*, (pp. 363-372). New York: Springer.
- (c67) Grundy, M., Hewitt, A., Sarwani, M., Ratukalou, I., **McBratney, A.** (2014). GlobalSoilMap progress in Oceania. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 29-34). London: CRC Press.
- (c66) Hempel, J., **McBratney, A.**, Arrouays, D., McKenzie, N., Hartemink, A. (2014). GlobalSoilMap project history. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, **A McBratney** (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 3-8). London: CRC Press.
- (c65) Webb, M., Kidd, D., Grose, C., Moreton, R., Malone, B., **McBratney, A.**, Minasny, B. (2014). Integrating climate into the Digital Soil Assessment framework to assess land suitability. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 393-399). London: CRC Press.
- (c64) Waring, C., Stockmann, U., Malone, B., Whelan, B., **McBratney, A.** (2014). Is Percent 'Projected Natural Vegetation Soil Carbon' a Useful Indicator of Soil

- Condition? In Alfred E. Hartemink, Kevin McSweeney (Eds.), *Soil Carbon*, (pp. 219-227). New York: Springer.
- (c63) Adhikari, K., Bou Kheir, R., Greve, M., Greve, M., Malone, B., Minasny, B., **McBratney, A.** (2014). Mapping soil pH and bulk density at multiple soil depths in Denmark. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 155-160). London: CRC Press.
- (c62) Padarian, J., Minasny, B., **McBratney, A.**, Dalgliesh, N. (2014). Mapping the available water capacity of Australian soils. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 173-179). London: CRC Press.
- (c61) Kidd, D., Webb, M., Grose, C., Moreton, R., Malone, B., **McBratney, A.**, Minasny, B. (2014). Operational digital soil assessment for enterprise suitability in Tasmania, Australia. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A **McBratney** (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 113-119). London: CRC Press.
- (c60) Minasny, B., Malone, B., Stockmann, U., Odgers, N., **McBratney, A.** (2014). Pedometrics. In S.A. Elias (Eds.), *Reference Module in Earth Systems and Environmental Sciences*, (pp. 1-10). Netherlands: Elsevier.
- (c59) Minasny, B., **McBratney, A.**, Malone, B., Lacoste, M., Walter, C. (2014). Quantitatively Predicting Soil Carbon Across Landscapes. In Alfred E. Hartemink, Kevin McSweeney (Eds.), *Soil Carbon*, (pp. 45-57). New York: Springer.
- (c58) Padarian, J., Minasny, B., **McBratney, A.** (2014). The evolving methodology for global soil mapping. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 215-220). London: CRC Press.
- (c57) Arrouays, D., **McBratney, A.**, Minasny, B., Hempel, J., Heuvelink, G., MacMillan, R., Hartemink, A., Lagacherie, P., McKenzie, N. (2014). The GlobalSoilMap project specifications. In D Arrouays, N McKenzie, J Hempel, A Richer de Forges, A McBratney (Eds.), *GlobalSoilMap: Basis of the global spatial soil information system*, (pp. 9-12). London: CRC Press.
- (c56) Hempel, J., **McBratney, A.**, McKenzie, N., Hartemink, A., MacMillan, R., Lagacherie, P., Arrouays, D. (2013). Vers une cartographie numerique des proprietes des sols du monde. In Dominique Arrouays (Eds.), *Etude et Gestion des Sols*, (pp. 7-13). Orleans, France: Association Française pour l'Étude du Sol.
- (c55) Lacoste, M., Michot, D., Viaud, V., Walter, C., Minasny, B., **McBratney, A.B.** 2012. High resolution 3D mapping for soil organic carbon assessment in a rural landscape. pp. 341-345. In B. Minasny, A.B. McBratney & B. Malone (eds) *Digital Soil Assessments and Beyond - Proceedings of the Fifth Global Workshop on Digital Soil Mapping*. CRC Press/Balkema, Leiden.
- (c54) Odgers, N.P., Thompson, J.A., Libohova, Z., **McBratney, A.B.** 2012. Uncertainty estimation for weighted-means digital soil maps. pp. 179-184. In B. Minasny, A.B. McBratney & B. Malone (eds) *Digital Soil Assessments and Beyond - Proceedings of the Fifth Global Workshop on Digital Soil Mapping*. CRC Press/Balkema, Leiden.
- (c53) Wheeler, I., **McBratney, A.B.**, Minasny, B., De Grujter, J.J. 2012. Digital Soil Mapping to inform design-based sampling strategies for estimating total organic carbon stocks at the farm scale. pp. 77-82. In B. Minasny, A.B. McBratney & B. Malone (eds) *Digital Soil Assessments and Beyond - Proceedings of the Fifth Global Workshop on Digital Soil Mapping*. CRC Press/Balkema, Leiden.

- (c52) Stockmann, U., Minasny, B., **McBratney, Alex. B.**, Hancock, G.R., Willgoose, G.R. 2012. Exploring short-term soil landscape formation in the Hunter Valley, NSW, using gamma ray spectrometry. pp. 77-82. In B. Minasny, A.B. McBratney & B. Malone (eds) Digital Soil Assessments and Beyond - Proceedings of the Fifth Global Workshop on Digital Soil Mapping. CRC Press/Balkema, Leiden.
- (c51) Hughes, P., **McBratney, Alex. B.**, Malone, B.P., Minasny, B. 2012. Development of terrons for the Lower Hunter Valley wine-growing region. pp. 31-36. In B. Minasny, A.B. McBratney & B. Malone (eds) Digital Soil Assessments and Beyond - Proceedings of the Fifth Global Workshop on Digital Soil Mapping. CRC Press/Balkema, Leiden.
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