Updated on 11/30/2018

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Current Research Interests

(1) Early Earth plate tectonics vs. non-plate tectonics, South Africa (field-based research)
(2) Mechanics of slow-slip events and tremor generation (theoretical research)
(3) Origin of double seismic zones and stress states along oceanic slabs (theoretical research)
(4) Scaling of giant polygons in the solar system (analogue modeling and modeling)
(5) Analogue and numerical modeling of icy-satellite tectonics
(6) Earthquake hazards in North China basin (fieldwork, literature synthesis, and modeling).
(7) Retro-arc processes of the North American Cordillera (field-based research)
(8) Himalayan-Tibetan orogenic system (field-based research in close collaboration of Asian geoscientists)

Teaching:

I have taught a wide range of classes at undergraduate and graduate levels. They include general education classes (e.g., *Introduction to Earth Sciences* and *Solar System*), introductory to advanced field mapping courses (e.g., our capstone Summer Field Camp), graduate courses (e.g., *Processes and History of Plate Tectonics on Earth*; *Planetary Surfaces*; *Rock Mechanics; Advanced Structural Geology; Tectonic Evolution of Asia; Tectonic Evolution of North American Cordillera; Tectonic Geomorphology*).

Education:

B.S. (1982): Geomechanics, Beijing University.
M.S. (1983): Precambrian granulite belt along the northern margin of the North China craton; Beijing University (supervisor: Prof. Xianglin Qiang) (incomplete due to transfer to USC).
PhD (1988): Geometry, Kinematics, and Mechanics of the Lewis Thrust System in Glacier National Park, Montana; University of Southern California (supervisor: Prof. Gregory A. Davis) (thesis defended in 1987 but not officially filed until 1988).

Professional Appointments:

1987-1988 Acting Assistant Professor, UCLA
1993-1997 Associate Professor, UCLA
1997-present Full Professor, UCLA
1995-2011 Member of the Institute of Geophysics and Planetary Physics, UCLA *(50% teaching with the Department of Earth and Space Sciences at UCLA and 50% research with the Institute)*
2005-present Adjunct Professor at China University of Geosciences-Beijing (supervise graduate students; teaching short courses; conduct collaborative research).

Awards and Honors:

1986 Chevron Graduate Student Fellowship.
1994 Young Scientist Award (Donath Medal), Geological Society of America.
1994 Fellow, the Geological Society of America.
2013 Fellow, the American Geophysical Union

Service within UCLA:

2001-2005: Graduate Advisor for the Geology Program, Department of Earth and Space Sci. UCLA.
2005-2011: Merit Increase Committee Chair, Institute of Geophysics and Planetary Physics, UCLA.
2014-2017, Vice Chair in charge of academic promotion, Department of Earth, Planetary, and Space Sciences, UCLA.

1995-present: served as the search committee chair for the following positions at UCLA: (1) Continental Tectonics resulting in hiring Prof. Gary Axen (1995), (2) Sedimentology and Tectonics resulting in hiring Prof. Brian Horton (1997), (3) Active Tectonics and Geodesy resulting in hiring Prof. Gilles Peltzer (1999), (4) Quaternary Geochronology resulting in hiring Prof. Edward Rhodes (2005), and (5) surface processes resulting in hiring Prof. Seulgi Moon (2016).

Service as a Panel and Review Committee Member outside UCLA:

1993-1996 Panel member of the International Ocean Drilling Program (ODP)
2000 Review Committee member for the Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan
2002 Review Committee member for Department of Geological and Atmospheric Sciences, University of Houston, Taxes.
2014 Review Committee member for the Department of Earth and Atmospheric Sciences, University of Houston, Taxes.
2017 Review Committee member for the Department of Geology and Geophysics, University of Texas A&M.

Service as Associate Editor, Chief Editors, and Board Member of Professional Journals:

1996-1999 Associate Editor, *Geology*
2002-2008 Associate Editor, *Journal of Asian Earth Sciences*
2007-present Associate Editor, *Geological Society of America Bulletin*
2008-2014 Board Member, *Earth and Planetary Science Letters*
2011-2014 Chief Editor, *Tectonophysics*
2014-present Chief Editor, *Earth and Planetary Science Letters*

Service on Advisory Boards:

2012-present Member of the Advisory Board, the SinoProbe Project administered by the Chinese Academy of Geological Sciences and funded by the Chinese Ministry of Science and Technology.
2017-present Vice Chair of the Advisory Board, the Planetary and Space Research Center, Beijing University.
2017-present Member of the Advisory Board, the School of Earth Sciences, Nanjing University.

Employment of Past PhD Students in Academic

1. Thomas K. Kelty (PhD 2000): Professor, California State University, Long Beach, California
2. Michael A. Murphy (PhD 2001): Professor, University of Houston, GSA Fellow.
3. Paul A. Kapp (PhD 2002): Professor, University of Arizona, GSA fellow and Donath medalist.
4. Eric S. Cowgill (PhD 2002): Professor, University of California, Davis, GSA fellow.
5. Michael H. Taylor (PhD 2003): Professor, University of Kansas, Lawrence, Kansas
6. Alexander C. Robinson (PhD 2004): Associate Professor, University of Houston, Huston, Texas.
7. Carrie Menold (PhD 2006): Professor, Albion College, Michigan, Albion, Michigan.
8. A. Alexander G. Webb (PhD 2008): Associate Professor, Hong Kong University.
9. Michael W. McRivette (PhD 2011): Assistant Professor, Albion College, Michigan, Albion, Michigan.
10. Sara Cina (PhD 2011): Instructor and Academic Program Coordinator, School of Earth and Environmental Sciences, Stanford University, California.
11. Jinyu Zhang (PhD 2014 supervised at China University of Geosciences-Beijing): Assistant Researcher, Institute of Earth Sciences, China Earthquake Administration.
12. Chen WU (PhD 2016 supervised at China University of Geosciences-Beijing): Assistant Professor, China University of Geosciences-Beijing.
13. Ivy Curren (PhD 2016): post-doctoral fellow, Weizmann Institute of Science.
14. Andrew Zuza (PhD 2016): Assistant Professor, University of Nevada-Reno.
15. Peter Haproff (PhD 2017): Assistant Professor, University of North Carolina, Wilmington.

Employment of Past PhD Students with NASA

1. Ernest Paylor (PhD 1994), NASA, Washington, D.C.
2. Jessica Watkins (PhD 2015): NASA Astronaut selected in 2017.
3. Jennifer Scully (PhD 2015): Research Staff, Caltech/JPL.

Employment of Past PhD Students in Industry

1. Jeffery Fllipone (PhD 1993), Environmental Consulting Company, Victoria, Canada.
2. Peter Rumelhart (PhD 1999), EXXON-MOBILE Oil Company, Houston, Texas
3. Stephanie M. Briggs (PhD 2007), William Lettis and Associates, San Francisco, California

Employment of Past MS Students in Industry:

1. Mr. Christian Zarn (1989), Mineral Exploration Company, Europe.
2. Mr. Adam Norris (1991), GEOSCIENCE Support Services, Inc., 620 Arrow Hwy., Ste. 2000, La Verne, CA 91750.
3. Ms. Elizabeth Forshee (1992), Union California Oil Company, Sacramento, California.
4. Mr. Robert Johnston (1996), EXXON-MOBILE Oil Company, Houston, Texas.
5. Mr. Matt Spurlin (1998), Environmental Consulting Company, Denver, Colorado.
6. Ms. C.Y. (Queena) Chou (2005), Consulting Company, Calgary, Canada.
7. Ms. Kristin Ebert (2006), EXXON-MOBILE Oil Company, Fairbank, Alaska.
8. Mr. Robert Lovdhal (2011), Geotechnical Consulting Company, Irvine, California.
9. Ms. Sarah Byram (2011), Energy Company, Kansas City.
10. Ms. Robin Reith (2013), Hydrothermal Energy Company, Reno, Nevada.
11. Ms. Diya Chudhury (2013), Applied GeoSolutions, 87 Packers Falls Road, Durham, NH 03824.
12. Ms. Margaret Deng (2018)

Current Graduate Students:

1. Ms. Erin Leonardo: Tectonics of Europa and Enceladus (PhD expected in 2019)
2. Ms. Abijah Simon: Tectonics of the eastern Tibetan plateau (PhD expected in 2021)
3. Ms. Ashley Shoenfeld: Tectonics and Dynamic Modeling of ice satellites (PhD expected in 2021)

Current Post-Doctoral Fellows, Exchange Students, and Visiting Professors:

1. Dr. Zhoumin Xie (post-doctoral fellow from China Earthquake Administration)
2. Dr. Xiangjiang Yu (post-doctoral fellow from Peking University)
3. Prof. Chen Wu (visiting scholar, China University of Geosciences-Beijing)
4. Mr. Kaixuan An (visiting graduate student, Zhejiang University).
5. Prof. Jiafu Chen (visiting professor, Northeastern University)

Employment of Past Post-doctoral Fellows:

1. Dr. Bradley R. Hacker (1987-1988): Professor of Geology, UC Santa Barbara (AGU fellow).
2. Dr. Shang-You Nie (1992-1994): Senior Geologist, Shell Oil Company.
3. Dr. Phillip Law (1992-1993): Senior Engineer, Boeing Company.
4. Dr. Brian Horton (1997-1998): Professor, University of Texas, Austin (Donath and W.R. Dickinson medalist).
5. Dr. Xiang-Hong Kong (1996-1998): Computer software engineer, Los Angeles.
6. Prof. Lin Ding (2001): Institute of Tibetan Plateau Research, Chinese Academy of Sciences; (elected as a member of the Chinese Academy of Sciences in 2017).
7. Dr. Xuanhua Chen (2007-2008): Professor, Chinese Academy of Geological Sciences, Beijing, China.
8. Dr. Hengmao Tong (2009-2010): Professor, China University of Petroleum, Beijing, China.
9. Dr. Yuxiu Zhang (2010-2011): Professor, University of Chinese Academy of Sciences.
10. Dr. Haiyan Wang (2011), Professor, Chinese Academy of Geological Sciences, Beijing.
11. Dr. Xiao-Song Xiong (2011), Associate Professor, Chinese Academy of Geological Sciences, Beijing.
12. Dr. Jufeng Gong (2010-2012), Associate Professor, Zhejiang University, Hangzhou, China.
13. Dr. Korhan Esat (2015-2016): Assistant Professor, Ankara University, Turkey.

Past Visiting Scholars:

1. Prof. Bartulzi Dash (Mongolian University of Science and Technology).
2. Prof. Chandra S. Dubey (Delhi University).
3. Prof. Jianghai Wang (Guangzhou Institute of Geochemistry, Chinese Academy of Sciences);
4. Prof. Zhaojie Guo (Peking University).

5. Prof. Bei Xu (Peking University).
6. Prof. Cao Yuan (Hong Kong University).
7. Prof. Louise Teng (Taiwan National University).
8. Prof. Jiangyu Zhou (China University of Geosciences-Wuhan).
9. Prof. Xiaofeng Wang (Institute of Geomechanics, Chinese Academy of Geological Sciences).
10. Prof. Zhengle Chen (Institute of Geomechanics, Chinese Academy of Geological Sciences).
11. Prof. Yueqiao Zhang (Institute of Geomechanics, Chinese Academy of Geological Sciences).
12. Prof. Wanming Deng (Institute of Geology and Geophysics, Chinese Academy of Geological Sciences).
13. Prof. Guibin Zhang (China University of Geosciences, Beijing).
14. Prof. Ke Hu (China University of Geosciences, Beijing).
15. Prof. Dewei Li (China University of Geosciences, Wuhan).
16. Prof. Jian-Hua Li (Nanjing University).
17. Mr. Xiangjiang Yu, exchange PhD student (Beijing University).
18. Prof. Hossein Hassani (Faculty of Mining and Metallurgical Engineering, Amirkabir University of Technology, Tehran, Iran).
19. Prof. Xiaogan Cheng (Zhejiang University, China).
20. Mr. Wen-Liang Jian, exchange student (Institute of Crustal Dynamics, China Earthquake Administration, Beijing).
21. Prof. Jianlin Chen (Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou, China).
22. Prof. Yuxiu Zhang (Graduate School, Chinese Academy of Sciences, Beijing, China).
23. Mr. Junpeng Wang (exchange student, China University of Geosciences, Wuhan, China).
24. Mr. Zhen-Zheng Wang, visiting PhD graduate student (Peking University, China).
25. Prof. Dapeng Li (China University of Geosciences, Beijing, China).
26. Prof. Li-Jun Song (Xi'an Shiyou University, China).
27. Ms. Ming Sun, exchange PhD student, (China University of Geosciences, Beijing, China).
28. Mr. Xing-Qiang Chen, exchange PhD student, (Chinese Academy of Geol. Sci., Beijing, China).
29. Mr. Jingqiang Wang, exchange PhD student (Nanjing University, China).
30. Prof. Xiao-Gang Li (Chongqing University of Science and Technology, China).
31. Mr. Yi-Ping Zhang (Visiting PhD graduate student, Chinese Academy of Geological Sciences)
32. Prof. Chuanxin Li (visiting scholar, China University of Geosciences-Beijing)
33. Prof. Honglin Luo (visiting scholar, China University of Mines and Technology)
34. Mr. Hanzhang Chen (exchange undergrad student, China University of Geosciences-Beijing)
35.

Publications and Manuscripts under Review

Papers in review:

Wu, C., Zuza, A.V., Zhou, Z., **Yin, A**., Li, R., McRivette, M.W., Chen, X., Ding, L., Wang, G., Liu, C., & Geng, J., Mesozoic-Cenozoic basin evolution of central Tibet during the Indo-Asian collision: ***GSAB***, in review.

McRivettee, M.W., **Yin, A**., Chen, X., and Gehrels, G.E., Cenozoic basin evolution of the central Tibetan plateau as constrained by U-Pb detrital zircon geochronology, sandstone petrology, and fission-track thermochronology. ***Tectonophysics***, in revision.

Haproff, P., Zuza, A.V., **Yin, A.,** Dubey, C.S., Chen, J.L., & Ding, L., Tectonic evolution of the northern Indo-Burma Ranges (Part 1): spatial continuity of tectonostratigraphy across the eastern Himalayan syntaxis: ***Geosphere***, in revision.

Yin, A., What controls the recurrence times of aseismic slow-slip events at convergent plate margins? ***Geology***.

Yin, A., and Xie., Z. (2018). Anisotropic viscoplasticity explains slow-slip scaling at convergent plate margins. ***Tectonophysics.*** In press.

2018

168. **Yin, A.** (2018). Water hammers tremors during plate convergence. ***Geology*** *46*, 1031-1034.

167a. Zhang, J. Y., Liu-Zeng, J., Scherler, D., **Yin, A.,** Wang, W., Tang, M. Y., & Li, Z. F. (2018). Spatiotemporal variation of late Quaternary river incision rates in southeast Tibet, constrained by dating fluvial terraces. ***Lithosphere*** *10*, 662-675.

167b. Zhang, J. Y., Liu-Zeng, J., Scherler, D., **Yin, A**., Wang, W., Tang, M. Y., & Li, Z. F. (2018). ERRATUM: Spatiotemporal variation of late Quaternary river incision rates in southeast Tibet, constrained by dating fluvial terraces. ***Lithosphere*** *10*, 676-676.

166. Leonard, E. J., Pappalardo, R. T., & **Yin, A**. (2018). Analysis of very-high-resolution Galileo images and implications for resurfacing mechanisms on Europa. ***Icarus*** 312, 100-120.

166. **Yin, A.,** Xie, Z., & Meng, L.S. (2018). A viscoplastic shear-zone model for deep (15–50 km) slow-slip events at plate convergent margins. ***EPSL*** 491, 81-94.

165. Sun, M., **Yin, A.,** Yan, D., Ren, H., Mu, H., Zhu, L., & Qiu, L. (2018). Role of pre-existing structures in controlling the Cenozoic tectonic evolution of the eastern Tibetan plateau: New insights from analogue experiments. ***EPSL*** 491, 207-215.

164. Zuza, A.V., Wu, C., Reith, R.C., **Yin, A**., Li, J., Zhang, J., Zhang, Y., Wu, L., & Liu, W. (2018). Tectonic evolution of the Qilian Shan: An early Paleozoic orogen reactivated in the Cenozoic. ***GSA Bulletin*** 130 (5-6): 881-925. DOI: https://doi.org/10.1130/B31721.1.

163. Chen, J.L., **Yin, A**., Xu, J.F., Xu, J.F., Dong Y.H., Wang, B.D., Kang, Z.Q., Late Cenozoic magmatic inflation, crustal thickening, and >2 km of surface uplift in central Tibet: ***Geology***, 46, 19–22.

162. Haproff, P. J., Zuza, A. V., and **Yin, A**. (2017). West-directed thrusting south of the eastern Himalayan syntaxis indicates clockwise crustal flow at the indenter corner during the India-Asia collision. ***Tectonophysics***, 722, 277-285.

2017

161. Fan, S., Ding, L., Murphy, M. A., Yao, W., and **Yin, A.** (2017). Late Paleozoic and Mesozoic evolution of the Lhasa Terrane in the Xainza area of southern Tibet. ***Tectonophysics***, 721, 415-434.

160. Zuza, A.V., and **Yin, A.,** Balkatach hypothesis: A new model for the evolution of the Pacific, Tethyan, and Paleo-Asian oceanic domains: ***Geosphere***, 13 (5), 1664-1712.

159. Webb, A.A.G., Guo, H.C., Clift, P.D., Husson, L., Müller, T., Costantino, D., **Yin, A**., Xu, Z.Q, Cao, H., and Wang, Q. (2017). The Himalaya in 3D: Slab dynamics controlled mountain building and monsoon intensification: ***Lithosphere***, L636-1.

158. Duan, B., Liu, L. and **Yin, A**., Seismic shaking in the North China Basin expected from ruptures of a possible seismic gap: ***Geophysical Research Letters*** DOI: 10.1002/2017GL072638.

157. Wu, C., Zuza, A.V., **Yin, A**., Liu, C., Reith, R.C., Zhang, J., Liu, W. and Zhou, Z., 2017. Geochronology and geochemistry of Neoproterozoic granitoids in the central Qilian Shan of northern Tibet: Reconstructing the amalgamation processes and tectonic history of Asia: ***Lithosphere***, pp. L640-1.

156. Zuza, A. V., **Yin, A.,** Lin, J., & Sun, M. (2017). Spacing and strength of active continental strike-slip faults. ***Earth and Planetary Science Letters***, *457*, 49-62.

2016

155. Watkins, J. A., Ehlmann, B. L., and **Yin, A.** (2016). Forum reply to comments on "Long-runout landslides and the long-lasting effects of early water activity on Mars": *Geology 44 (5)*, E387-E387.

154. **Yin, A.,** Zuza, A.V. and Pappalardo, R.T.. "Corrigendum to" Mechanics of evenly spaced strike-slip faults and its implications for the formation of tiger-stripe fractures on Saturn's moon Enceladus"[Icarus 266 (2016) 204-216]." *Icarus* 277 (2016): 466-466.

153. Wu, C., **Yin, A.**, Zuza, A. V., Zhang, J., Liu, W., & Ding, L. (2016). Pre-Cenozoic geologic history of the central and northern Tibetan Plateau and the role of Wilson cycles in constructing the Tethyan orogenic system. *Lithosphere*, *8*(3), 254-292.

152. Zhang, J.Y., **Yin, A.,** Liu, W. C., Ding, L., & Xu, X. M. (2016). First geomorphological and sedimentological evidence for the combined tectonic and climate control on Quaternary Yarlung river diversion in the eastern Himalaya. *Lithosphere*, *8*(3), 293-316.

151. Menold, C., Grove, M., Manning, C.E., **Yin, A.,** Young, E.D., and Ziegler, K., 2016, Argon and Oxygen isotopic evidence for pervasive metasomatism during ultrahigh-pressure continental subduction: ***EPSL***, v. 446, p. 56–67.
150. Zuza, A.V., and **Yin, A.**, 2016, Continental deformation accommodated by non-rigid passive bookshelf faulting: An example from the Cenozoic tectonic development of northern Tibet: Tectonophysics, v. 677–678, p. 227–240.
149. Zuza, A.V., Cheng, X., and **Yin, A.**, 2016, Testing models of Tibetan Plateau formation with Cenozoic shortening estimates across the Qilian Shan–Nan Shan thrust belt: Geosphere, v. 12, no. 2, p. 1–32, doi:10.1130/GES01254.1.
148. **Yin, A**., Zuza, A.V., and R. T. Pappalardo, 2015, Mechanics of evenly spaced strike-slip faults and its implications for the formation of tiger-stripe fractures on Saturn's moon Enceladus: *Icarus*, v. 266, p. 204–216, doi:10.1016/j.icarus.2015.10.027.
147. Dash, B., Boldbaatar, E., Zorigtkhuu，O., and **Yin, A.,** Geochronology, geochemistry and tectonic implications of Late Triassic granites in the Mongolian Altai Mountains: *Journal of Asian Earth Sciences,* v. 117, p. 225–241, doi:10.1016/j.jseaes.2015.11.024.

2015

146. Chen, X., Gehrels, G., **Yin, A.,** Zhou, Q., and Huang, P., Geochemical and Nd-Sr-Pb-O isotopic constrains on Permo-Triassic magmatism in eastern Qaidam Basin, northern Tibetan plateau: Implications for the evolution of the Paleo-Tethys: *Journal of Asian Earth Sciences*, v. 114, p. 674-682.
145. Dong, S., Barosh, P.J., Yang, Z., and **Yin, A.,** 2015, Guest editors for a special volume on "Mesozoic Lithospheric Structures and Tectonic Development of East Asia": *Journal of Asian Earth Sciences*, v. 114, p. 611-770.
144. **Yin, A.,** and Pappalardo, R. T., 2015, Gravitational spreading, bookshelf faulting, and tectonic evolution of the South Polar Terrain of Saturn's moon Enceladus: *Icarus*, v. 260, p. 409–439.
143. Li, J., Dong, S., **Yin,** A., Zhang, Y., and Shi, W., 2015, Mesozoic tectonic evolution of the Daba Shan Thrust Belt in the southern Qinling orogen, central China: Constraints from surface geology and reflection seismology: *Tectonics*, v. 34, doi:10.1002/2014TC003813.
142. Guo, X., Gao, R., Xu, X., Keller, G. R., **Yin, A.**, and Xiong, X., 2015, Longriba fault zone in eastern Tibet: An important tectonic boundary marking the westernmost edge of the Yangtze block: *Tectonics*, v. 34, p. 970–985.
141. Watkins, J. A., Ehlmann, B. L., and **Yin, A.**, 2015, Long-runout landslides and the lasting effects of water activities on Mars: *Geology*, v. 43, p. 107–110.
140. Scully J. E. C., Russell, C. T., **Yin, A.**, Jaumann, R., Carey, E., McSween, H. Y., Castillo-Rogez, J., Raymond, C. A., Reddy. V, and Le Corre, L., 2015, Geomorphological evidence for transient water flow on Vesta: *EPSL*, v. 411, p. 151–163.
139. **Yin, A.,** Yu, X.J., Shen, Z.K., and Liu-Zeng, J. 2015, A possible seismic gap and high earthquake hazard in the North China Basin: *Geology*, doi: 10.1130/G35986.1, v. 43 no. 1 p. 19-22.
138. Dash, B., **Yin, A.,** Jiang, N., Tseveendorj, B., and Han, B., 2015, Petrology, structural setting, age, and geochemistry of Cretaceous volcanic rocks in eastern Mongolia: Implications for their tectonic origin. *Gondwana Research*, v. 27, p. 281–299.

2014

137. Scully, J.E.C., **Yin, A.,** Russell, C.T., Buczkowski, D.L., Williams, D.A., Blewett, D.T., Ruesch, O., Hiesinger, H., Mercer, C.M., Le Corre, L., Garry, W.B., Yingst, R.A., Jaumann, R., Roatsch, T., Preusker, F., Gaskell, R.W., Schröder, S.E., Ammannito, E., Pieters, C.M., Raymond, C.A., and the Dawn Science Team. Geomorphology and Structural Geology of Saturnalia Fossae and Adjacent Structures in the Northern Hemisphere of Vesta, *Icarus*, v. 244, p. 23–40.

2013

136. Li, Q. Wang, X., Xie, G., and **Yin, A.,** 2013, Oligocene-Miocene Mammalian Fossils from Hongyazi Basin and its Bearing on Tectonics of Danghe Nanshan in Northern Tibetan Plateau: PLoS, v. 8, 2013DOI: 10.1371/journal.pone.0082816, p. 1- 9.
135. Gao, R., Wang, H.Y., **Yin, A.,** Dong, S.W., Kuang, Z., Zuza, A.V., Li, W., and Xiong, X., 2013, Tectonic development of the northeastern Tibetan Plateau as constrained by high-resolution deep seismic reflection data: Lithosphere, v. 5, p. 555-574.

134. Dong, S., Gao, R., **Yin, A.,** Guo, T., Zhang, Y., Hu, J., Li, J., Shi, W., and Li, Q., 2013, What drove continued continent-continent convergence after ocean closure? Insights from high-resolution seismic-reflection pro ling across the Daba Shan in central China. *Geology*, v. 41, p. 671–674.
133. Webb, A.A.G., **Yin, A.**, and Dubey, C.S., 2013, U-Pb zircon geochronology of major lithologic units in the eastern Himalaya: Implications for the origin and assembly of Himalayan rocks. *Geological Society of America Bulletin*, v. 125, p. 499–522, doi: 10.1130/B30626.

2012

132. **Yin**, A., 2012. An episodic slab-rollback model for the origin of the Tharsis rise on Mars: Implications for initiation of local plate subduction and final unification of a kinematically linked global plate-tectonic network on Earth. Lithosphere, v. 4, 553-593, doi: 10.1130/L195.1.
131. Burgess, W.P., **Yin, A**., Dubey, C. S., Shen, Z.K., and Kelty, T.K., 2012, Holocene shortening across the Main Frontal Thrust zone in the eastern Himalaya. *Earth and Planetary Science Letters*, V. 357–358, p. 152–167.
130. Dupont-Nivet，D., **A. Yin,** and P. Clift: Introduction to the ‘‘Asian Climate and Tectonics’’ special issue, *Journal of Asian Earth Sci.* **V.44,** p.1-2 (2012) *2 pages.*
129. Li, Y.L., C.S. Wang, X.X. Zhao, **A. Yin**, and C. Ma: “Cenozoic thrust system, basin evolution, and uplift of the Tanggula Range in the Tuotuohe region, central Tibet”, *Gondwana Research*, **V. 22**, 482-492, 9 figures (2012) *11 pages*.
128. Chen., X.H. G.E. Gehrels, **A. Yin**, L. Li, and R.B. Jiang: “Paleozoic and Mesozoic basement magmatism of eastern Qaidam basin, northern Qinghai-Tibet plateau: LA-ICP-MS zircon U-Pb geochronology and its geologic significance”, Acta Geologica Sinica, **V. 86**, 350-369, 9 figures (2012) 20 pages.
127. Zhang, J.Y., **A. Yin**, W.C. Liu, F.Y. Wu, Ding Lin and M. Grove, 2012, Coupled U-Pb dating and Hf isotopic analysis of detrital zircon of modern river sand from the Yalu River (Yarlung Tsangpo) drainage system in southern Tibet: Constraints on the transport processes and evolution of Himalayan rivers *Geological Society of America Bulletin, v.* 124, p. 1449-1473.
126. **Yin, A.**, 2012. Structural analysis of the southern Valles Marineris trough zones and implications for large-scale strike-slip faulting on Mars. *Lithosphere*, v. 4, p. 286–330, doi: 10.1130/L192.1.
125. Wang, Y., Deng, T., Flynn, L., Wang, X.M., **Yin, A.,** Xu, Y.F., Lochner, E., Parker, W., E. Lochner, C.F. Zhang, and D. Biasatti, 2012. A high-resolution record of late Neogene environmental changes and its implications for tectonic development of southern Tibet. *Journal of Asian Earth Sciences*, 44 (2012) 62–76.

2011

124. Gehrels, G., Kapp, P. DeCelles, P. Pullen, A., Blakey, B., Weislogel, A., Ding, L., Guynn, J., Martin, A., McQuarrie, N., and **Yin, A**., 2011**,** Detrital zircon geochronology of pre-Tertiary strata in the Tibetan-Himalayan orogen. Tectonics 30, TC5016, doi:10.1029/2011TC002868.
123. Webb, A.A.G., **Yin, A.,** Harrison, T.M., Célérier, J., Gehrels, G.E., Grove, M., Manning, M.E., and Burgess, W.P., 2011, Cenozoic tectonic history of the Himachal Himalaya (northwestern India) and its constraints on the formation mechanism of the Himalayan orogen. *Geosphere* 7; 1013–1061; doi: 10.1130/GES00627.1.
122. **Yin, A.,** and Taylor, M.H., 2011. Mechanics of V-shaped conjugate strike-slip faults and the corresponding continuum mode of continental deformation. *Geological Society of America Bulletin* 123; 1798–1821; doi: 10.1130/B30159.1.
121. Wang, C.S., Gao, R., **Yin, A.**, Wang, H.Y., Zhang, Y.X., Guo, T., Q. Li, and Li, Y.L., 2011, A mid-crustal strain-transfer model for continental deformation: A new perspective from high-resolution deep seismic-reflection profiling across NE Tibet. *Earth and Planetary Science Letters* 306, 279–288.
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