

Updated on 01/27/2023

An Yin, *Professor of Geology, Department of Earth, Planetary, and Space Sciences, University of California, Los Angeles, CA 90095-1567, USA (email: ayin54@gmail.com)*

Research Interests:

Continental and early Earth tectonics (Asia, North American Cordillera, and southern Africa); planetary tectonics and surface processes (Mars and icy satellites); fault mechanics.

Teaching:

Introductory, upper-division, and graduate-level courses in tectonics, structural geology, rock mechanics, field mapping, and surface processes.

Education:

B.S. (1982): Geomechanics, Beijing University.

M.S. (1982-1983): Precambrian Geology of Northern China; Beijing University (supervisor: Prof. Xianglin Qiang) (incomplete due to school transfer to the University of Southern California).

PhD (1983-1988): Structural Geology with the thesis title of “*Geometry, Kinematics, and Mechanics of the Lewis Thrust System in Glacier National Park, Montana*”, University of Southern California (supervisor Prof. Gregory A. Davis) (thesis was defended in 1987 but was not filed until 1988).

Professional Appointments:

1995-2011 Institute of Geophysics and Planetary Physics, UCLA

1996-present Full Professor, UCLA

1993-1996 Associate Professor, UCLA

1988-1983 Assistant Professor, UCLA

1987-1988 Acting Assistant Professor, UCLA

Awards and Honors:

2022 Penrose Medal, Geological Society of America

2013 Fellow, the American Geophysical Union

1994 Fellow, the Geological Society of America

1994 Young Scientist Award (Donath Medal), Geological Society of America

Service at UCLA:

2022-2023: Chair of the departmental search committee.

2022 to the present: Graduate student advisor, EPSS, UCLA

2018: Member of the department search committee.

2014-2017: Vice Chair, Department of Earth, Planetary, and Space Sciences, UCLA.

2005-2011: Merit Increase Committee Chair, Institute of Geophysics and Planetary Physics, UCLA.

2016: Chair of the departmental search committee.

2005: Chair of the departmental search committee.

1999: Chair of the departmental search committee.

1997: Chair of the departmental search committee.

1996: Member of a Merit Increase Committee for the School of Letters and Sciences.

1995: Chair of the departmental search committee.

1993-1995: Departmental representative in the Academic Senate.

Service as a Panel and Review Committee Member outside UCLA:

2023 Review Committee member for School of Earth Sciences, Penn State.

2017 Review Committee member for the Dept. Geol. & Geophysics, University of Texas A&M.

2014 Review Committee member for Dept. Geol. and Atm. Sci., University of Houston, Texas.

2002 Review Committee member for Dept. Geol. and Atm. Sci., University of Houston, Texas.

2000 Review Committee member for the Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan

1993-1996 Panel member of the International Ocean Drilling Program (ODP).

Outreach Activities

- Outreach lectures at local elementary, middle and high schools, and community colleges.
- Invited lecture at the National Youth Leadership Summer Camp for Native Americans in 2019 on planetary sciences at the Piute Indian Reservation in Bishop, California.
- Coordinator for a STEM program between UCLA and Cerritos Community College for broadening student participation from low-income and underrepresented racial/social groups.
- TV appearances:
 - (1) *The Secrets of The Forbidden City* aired by PBS and BBC, in which I illustrated the geologic setting and historical earthquakes in northern China based on modern concepts of tectonics, seismology, and earthquake geology (<https://www.pbs.org/wgbh/nova/video/secrets-of-the-forbidden-city/>).
 - (2) Earthquake-triggered landslides aired by Discovery Channel.

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

2019-2021 Associate Editor, *Geology*
2014-2020 Chief Editor, *Earth and Planetary Science Letters*
2007-2019 Associate Editor, *Geological Society of America Bulletin*
2011-2014 Chief Editor, *Tectonophysics*
2008-2014 Board Member, *Earth and Planetary Science Letters*
2002-2008 Associate Editor, *Journal of Asian Earth Sciences*
1996-1999 Associate Editor, *Geology*

Current Graduate Students:

1. Ms. Abijah Simon: Tectonics of the eastern Tibetan plateau (PhD expected in 2022)
2. Ms. Ashley Schoenfeld: *Tectonics and dynamic modeling of ice satellites* (PhD expected in 2022)
3. Ms. Valeria Hernandez: *Tectonic development of the Limpopo orogenic belts and the Whipple Mountains detachment fault system* (PhD expected 2024)
4. Mr. Hanzhang Chen: *Tectonic and surface processes of the Pluto system* (PhD expected 2025)
5. Ms. Julia Miller: *Tectonic and surface processes of Pluto and Enceladus* (PhD expected 2025)

Past PhD Students

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, GSA fellow*
6. Alexander C. Robinson (PhD 2004): *Associate Professor, University of Houston, Houston, 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): *Associated Professor, Albion College, Michigan, Albion, Michigan.*
11. Sara Cina (PhD 2011): *Associate Director of Institutional Research at Stanford University*
12. Ivy Curren (PhD 2016): *Post-doctoral fellow, Weizmann Institute of Science.*
13. Andrew Zuza (PhD 2016): *Assistant Professor, University of Nevada-Reno.*
13. Peter Haproff (PhD 2017): *Assistant Professor, University of North Carolina, Wilmington.*
14. Ernest Paylor (PhD 1994): *NASA, Washington, D.C.*
15. Jessica Watkins (PhD 2015): *NASA Astronaut selected in 2017.*
16. Jennifer Scully (PhD 2015): *Research Staff, Caltech/JPL.*
17. Erin Leonard (PhD 2019): *Research Staff, Caltech/JP*
18. Jeffery Fllipone (PhD 1993): *Environmental Consulting Company, Victoria, Canada.*
19. Peter Rumelhart (PhD 1999): *EXXON-MOBILE Oil Company, Houston, Texas*

20. Stephanie M. Briggs (PhD 2007): William Lettis and Associates, San Francisco, California
21. Mike Lawson (PhD (2020): JPL

Past MS Students:

1. Mr. Christian Zarn (1989), Mineral Exploration Company, Europe.
2. Mr. Adam Norris (1991), GEOSCIENCE Support Services, Inc., La Verne, CA 91750.
3. Ms. Elizabeth Forshee (1992), Union California Oil Company, Sacramento, California.
4. Mr. Robert Johnston (1996), EXXON-MOBIL 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-MOBIL 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 (2019), Graduate student at Stanford University
13. Ms. Abijah Simon (2019), PhD student at UCLA
14. Mr. Kobe Wang (2022), Consulting Company, Los Angeles

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 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 Geol. 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 Geol. 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.
14. Dr. Xiangjiang Yu (2017-2020): Professor, Jinlin University
15. Dr. Chen Wu (2018-2019): Professor, Institute of Tibetan Plateau Research, Chinese Academy of Sciences.
16. Dr. Xiaogan Li (2017-2018): Professor, Chongqing University of Science and Technology, China
17. Dr. Xin Xu (2018-2020): Professor, Zhejiang University, China
18. Dr. Lin Chen (2019-2020): Professor, Chinese Academy of Sciences

Publications

2023

196. Xie, R., Chen, L., **Yin, A.**, Xiong, X., Chen, Y. J., Guo, Z., & Wang, K. Two phases of crustal shortening in northeastern Tibet as a result of a stronger Qaidam lithosphere during the Cenozoic India–Asia collision. *Tectonics*, e2022TC007261. <https://doi.org/10.1029/2022TC007261>.
195. Tang, Y., **Yin, A.**, Xu, X., An, K., & Zhang, Y. (2023). Tectonic evolution of the Triassic Songpan-Ganzi basin as constrained by a synthesis of multi-proxy provenance data. *Basin Research*, 35(1), 28-60. <https://doi.org/10.1111/bre.12703>.
194. Xu, X., Chen, H., Zuza, A. V., Yin, A., Yu, P., Lin, X., Zhao, C., Luo, J., Yang, S., & Wang, B. (2023). Phanerozoic cratonization by plume welding. *Geology*. <https://doi.org/10.1130/G50615.1>.

2022

193. Chen, H., & **Yin, A.** (2022). Impacts of thrusting, extensional faulting, and glaciation on cratering records of Pluto's largest moon Charon: Implications for the evolution of Kuiper belt objects. *Earth and Planetary Physics*, 6(6), 495-521.
192. Li, J., Wu, C., Chen, X., **Yin, A.**, Zuza, A. V., Haproff, P. J., Chen, Y, L. Wang, & Shao, Z. (2022). Tectonic setting of metamorphism and exhumation of eclogite-facies rocks in the South Beishan orogen, northwestern China. *Geosphere*. <https://doi.org/10.1130/GES02548.1>.
191. Dong, J., Grove, M., Wei, C., Han, B. F., **Yin, A.**, Chen, J., Ang Li, & Zhang, Z. (2022). Trench retreat recorded by a subduction zone metamorphic history. *Geology*, 50(11), 1281-1286. <https://doi.org/10.1130/G50385.1>.
190. Li, J., Wu, C., Chen, X., Zuza, A. V., Haproff, P. J., **Yin, A.**, & Shao, Z. (2022). Tectonic evolution of the Beishan orogen in central Asia: Subduction, accretion, and continent-continent collision during the closure of the Paleo-Asian Ocean. *GSA Bulletin*. <https://doi.org/10.1130/B36451.1>.
189. Wu, C., Li, J., Zuza, A. V., Haproff, P. J., **Yin, A.**, & Ding, L. (2022). Paleoproterozoic–Paleozoic tectonic evolution of the Longshou Shan, western North China craton. *Geosphere*, 18(3), 1177-1193.
188. Nizam, N., Divola, C., Day, M., **Yin, A.**, & Moon, S. (2022). Development of Chaos Terrain as Subaqueous Slide Blocks in Galilaei Crater, Mars. *Remote Sensing*, 14(9), 1998, <https://doi.org/10.3390/rs14091998>.

2021

187. Xu, X., Zuza, A. V., Chen, L., Zhu, W., **Yin, A.**, Fu, X., Gao, S.L., Xu, X.H., Kuang, X.T., Zhang, F.Q., Wu, L., Lin, X.,B., H.L. Chen, & Yang, S. (2021). Late Cretaceous to Early Cenozoic extension in the Lower Yangtze region (East China) driven by Izanagi-Pacific plate subduction. *Earth-Science Reviews* 103790.
186. Wang, Y., Chen, X., Zhang, Y., Yin, Z., Zuza, A., **Yin, A.**, Wang, Y., Ding, W., Xu, S., Shang, Y., Li, B., and Shao, Z., Superposition of Cretaceous and Cenozoic deformation in northern Tibet: A far-field response to the tectonic evolution of the Tethyan Orogenic System: *Geological Society of America Bulletin* <https://doi.org/10.1130/B35944.1>.
185. Li, X., Xu, G., Wu, C., **Yin, A.**, Wu, S., Zuza, A. V., & Li, Y. (2021). Pure Void Space and Fracture Pore Space in Fault Fractured Zones. *Frontiers in Earth Science* 9, 349.
184. Wu, C., Zuza, A. V., Li, J., Haproff, P. J., **Yin, A.**, Chen, X., & Li, B. (2021). Late Mesozoic–Cenozoic cooling history of the northeastern Tibetan Plateau and its foreland derived from low-temperature thermochronology. *Geological Society of America Bulletin* doi: <https://doi.org/10.1130/B35879.1>.
183. Wu, C., Zuza, A.V., **Yin, A.**, Chen X., Haproff , P.J., Li, J., Li, B., and Ding, L., Punctuated orogeny during the assembly of Asia: Tectonostratigraphic evolution of the North China craton and the Qilian Shan from the Paleoproterozoic to Early Paleozoic: *Tectonics* doi.org/10.1029/2020TC006503.
182. **Yin, A.**, Moon, S., & Day, M. (2021). Landform evolution of Oudemans crater and its bounding plateau plains on Mars: Geomorphological constraints on the Tharsis ice-cap hypothesis. *Icarus* 360, 114332.
181. Xu, X., Zuza, A. V., **Yin, A.**, Lin, X., Chen, H., & Yang, S. (2021). Permian plume-strengthened Tarim lithosphere controls the Cenozoic deformation pattern of the Himalayan-Tibetan orogen. *Geology* 49, 96-100.
180. Kirkpatrick, H. M., Moon, S., **Yin, A.**, & Harrison, T. M. (2021). Impact of fault damage on eastern Tibet topography. *Geology* 49, 30-34.
179. Leonard, E., **Yin, A.**, and R. Pappalardo (2021) Forming relic cratered blocks: Left-lateral shear on Enceladus inferred from ice-shell deformation in the Leading Hemisphere: *JGR-Planet*

2020

178. Haproff, P. J., Odlum, M. L., Zuza, A. V., **Yin, A.**, & Stockli, D. F. (2020). Structural and Thermochronologic Constraints on the Cenozoic Tectonic Development of the Northern Indo-Burma Ranges. *Tectonics* 39, e2020TC006231.
177. Watkins, J. A., Ehlmann, B. L., & **Yin, A.** (2020). Spatiotemporal evolution, mineralogical composition, and transport mechanisms of long-runout landslides in Valles Marineris, Mars. *Icarus*, 113836.
176. **Yin, A.**, Brandl, G., & Kröner, A. (2020). Plate-tectonic processes at ca. 2.0 Ga: Evidence from >600 km of plate convergence. *Geology* 48, 103-107.
175. Leonard, E. J., **Yin, A.**, & Pappalardo, R. T. (2020). Ridged plains on Europa reveal a compressive past. *Icarus* <https://doi.org/10.1016/j.icarus.2020.113709>.

2019

174. Wu, C., Zuza, A.V., Zhou, Z., **Yin, A.**, Li, R., McRivette, M.W., Chen, X., Ding, L., Wang, G., Liu, C., & Geng, J. (2019). Mesozoic-Cenozoic basin evolution of central Tibet during the Indo-Asian collision: *Lithosphere* 11, 524-550.
173. Haproff, P., Zuza, A.V., **Yin, A.**, Harrison, T.M., Mapping, C.E., Dubey, C.S., Ding, L., Wu, C., and Chen, J.L. (2019). Geologic framework of the northern Indo-Burma Ranges and lateral correlation of Himalayan-Tibetan lithologic units across the eastern Himalayan syntaxis. *Geosphere* 15, 1–26, <https://doi.org/10.1130/GES02054.1>.
172. McRivette, M. W., **Yin, A.**, Chen, X., & Gehrels, G. E. (2019). Cenozoic basin evolution of the central Tibetan plateau as constrained by U-Pb detrital zircon geochronology, sandstone petrology, and fission-track thermochronology. *Tectonophysics* 751, 150-179.
171. **Yin, A.**, & Xie, Z. (2019). Anisotropic viscoplasticity explains slow-slip M0-T scaling at convergent plate margins. *Tectonophysics* 751, 229-244.

2018

170. 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.
169. 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.
168. 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.
167. **Yin, A.** (2018). Water hammers tremors during plate convergence. *Geology* 46, 1031-1034.
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. *Earth and Planetary Science Letters* 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. *Earth and Planetary Science Letters* 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. *Geological Society of America Bulletin* 130, 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.** (2018). 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, 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.**, 2017, 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*, 640-1.
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, 387-387.
154. **Yin, A.**, Zuza, A.V. and Pappalardo, R.T. (2016). "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, 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, 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, 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. *Earth and Planetary Science Letters* 446, 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* 677-678, 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* 12, 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* 266, 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* 117, 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* 114, 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* 114, 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*, 260, 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* 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* 34, 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* 43, 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. *Earth and Planetary Science Letters* 411, 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* 43, doi: 10.1130/G35986.1, 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* 27, 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*, 244, 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* 8, doi:10.1371/journal.pone.0082816, 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* 5, 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* 41, 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*, 125, 499–522, doi: 10.1130/B30626.

2012

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