

CURRICULUM VITAE

HONN KAO

Geological Survey of Canada
Pacific Geoscience Centre
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EDUCATION:

- Ph. D., Geophysics, May 1993
University of Illinois at Urbana-Champaign (UIUC)
- M. Sc., Geophysics, January 1991
University of Illinois at Urbana-Champaign
- B. Sc., Geophysics, June 1985
National Central University, Taiwan, ROC

HONORS:

Societal

- Distinguished Youth Medal, ROC March 2001

Academic

- Research article (*Kao et al.*, 2018) featured by IRIS as 2018-2019's "Science Highlights" 2019
- Earth Science Sector Recognition Award, Natural Resources Canada 2011
- Local Merit Award, Geological Survey of Canada – Pacific Division 2007
- Outstanding Research Award of the National Science Council, ROC
(twice) 2001-2002, 1999-2000
- Research Award of the National Science Council, ROC 1994, 1995, 1996, 1997, 1998
- Recipient of the Research Grand for Excellent Junior Scientists, National Science Council, ROC
1997-1998
- Junior Research Investigators Award, Academia Sinica February 1997
- Session co-chairman and invited speaker, Western Pacific Geophysical Meeting July 1994
- University of Illinois Fellow August 1991-May 1993
- Recipient of the Dissertation Research Grants, UIUC Fall 1992
- Leighton Memorial Award, Department of Geology, UIUC June 1991
- Exxon Education and Development Award, Department of Geology, UIUC June-August 1990
- University of Illinois Summer Fellow June-August 1989
- Member of the Honor Society of Phi Kappa Phi 1989

Teaching

- Excellent Teaching Assistant Award, College of Liberal Arts and Sciences, UIUC 1989-1990
- Award for Excellence in Teaching, Department of Geology, UIUC Fall 1989
- List of Outstanding Teachers, UIUC Fall 1990, Spring 1989,
Fall 1987 and 1988

Partial List of Invited Presentations since 2008

- American Geophysical Union Meeting, Washington D.C. December 2018
- Banff 2018 International Induced Seismicity Workshop October 2018
- Canadian Society of Unconventional Resources 3rd Induced Seismicity Workshop
December 2017
- 45th Annual Yellowknife Geoscience Forum November 2017

- Scientific Workshop on 20th Anniversary of Broadband Array in Taiwan for Seismology (BATS) September 2016
- Canada-USA-Mexico Trilateral Working Group on Energy Cooperation Webinar September 2015
- CGU-AGU Joint Assembly, Montreal, QC May 2015
- Keynote, Schatzalp Induced Seismicity Workshop, Davos, Switzerland March 2015
- Keynote, SEG Induced Seismicity Workshop, Banff, AB September 2014
- Keynote, Unconventional Gas Technical Forum, Victoria, BC June 2014
- TransAlta Induced Seismicity Workshop, Calgary, AB September 2014, 2016
- Interdepartmental Workshop on Shale Gas, Ottawa, ON January 2014
- CSEG Induced Seismicity Forum, Calgary, AB November 2013
- Unconventional Gas Technical Forum, Victoria, BC June 2013
- Annual Meeting, Seismological Society of America, Portland, OR April 2010
- American Geophysical Union Meeting, San Francisco, CA December 2010
- Webcasted, American Geophysical Union Meeting, San Francisco, CA December 2008
- Aseismic Slip, Non-Volcanic Tremor, and Earthquakes Workshop, Victoria, BC Feb. 2008

MAJOR EXPERIENCES:

- Senior Research Scientist (RES-5) April 2019–present
Geological Survey of Canada, Pacific Division
- Senior Research Scientist (RES-4) April 2012–March 2019
Geological Survey of Canada, Pacific Division
- Research Scientist August 2002–March 2012
Geological Survey of Canada, Pacific Division
- Adjunct Professor June 2007–present
School of Earth and Ocean Sciences, University of Victoria
- Invited Visiting Professor February, 2009
Tohoku University, Japan
- Adjunct Professor August 2001–August 2002
Department of Geosciences, National Taiwan University
- Research Fellow March 2001–August 2002
Institute of Earth Sciences, Academia Sinica
- Invited Visiting Scholar October 1998, January 2001
University of P&M Curie, Paris, France
- Invited Visiting Professor January 2000–July 2000
University of Tokyo, Japan
- Associate Research Fellow November 1996–March 2001
Institute of Earth Sciences, Academia Sinica
- Assistant Research Fellow July 1993–November 1996
Institute of Earth Sciences, Academia Sinica
- Research Assistant January 1991–April 1993
University of Illinois at Urbana-Champaign
- Teaching Assistant September 1987–December 1990
University of Illinois at Urbana-Champaign
- Second Lieutenant October 1985–August 1987
ROC Army

Summer Assistant (Geophysical Field Work)
National Central University

1982–1984

LIST OF MAJOR SERVICES:

Panel Proceedings Participant, British Columbia Scientific Hydraulic Fracturing Review Panel
May 30, 2018
Consultant to British Columbia Auditor General’s Office on issues of induced seismicity
November 9, 2017
Principal Organizer, Technical Meeting on Induced Seismicity Regulations, Sidney, BC
January 18, 2016
Organizer, Technical Meeting on Traffic Light Protocol for Induced Seismicity, Calgary, AB
September 4, 2015
International Advisory Board of the “Terrestrial, Atmospheric and Oceanic Sciences” Journal
November 2015–present
Project Leader, Induced Seismicity Research Project, Environmental Geoscience Program,
Natural Resources Canada 2015–present
Foreign Advisor to the Central Weather Bureau of Taiwan 2013–present
Technical Committee of the British Columbia Seismic Research Consortium 2012–present
Editorial Board, International Journal of Geophysics 2012–2017
Associate Editor, Journal of Geophysical Research-Solid Earth 2011–2017
Panelist, Induced Seismicity Workshop, Alberta Energy Regulator June 2015
Review Panelist, USGS National Earthquake Hazard Reduction Program August 2013
Activity Leader, Induced Seismicity Research, Natural Resources Canada 2012–2014
Principal Investigator, eco-Energy Innovation Initiative on induced seismicity 2012–2015
Project Leader, PGC-IOS Seismic Array (PISA) 2009–2012
Seminar Organizer, PGC 2005–2007
ROC Committee Member, International Union of Geodesy and Geophysics (IUGG) 2000–2003
Coordinator, Sino-American Joint Collaboration in Geophysics, NSC 2000
Sessions co-chairman, AGU Fall Meeting December 2003
Sessions co-chairman, Western Pacific Geophysical Meeting July 2000
Member of Working Group and session chairman, Western Pacific Geophysical Meeting
July 1998
Representative of the IES to the Federation of Digital Seismographic Networks (FDSN)
1997–2002
Representative of the IES to the Incorporated Research Institutions for Seismology (IRIS)
1994–2002
Information Equipment Committee, IES Member 1995, 1996
Chair 1997
Colloquium Organizer, IES 1995

AFFILIATIONS:

American Geophysical Union
Canadian Geophysical Union
Seismological Society of America
Phi Kappa Phi
Sigma Xi

SELECTED PUBLICATIONS:

* This section contains a list of published peer-reviewed papers and open-file reports. Lists of other publications (technical reports, book sections, conference papers, meeting abstracts, etc.) are available upon request.

- Babaie Mahani, A., H. Kao, G.M. Atkinson, K. Assatourians, K. Addo, and Y. Liu (2019). Ground motion characteristics of the November 30, 2018 injection-induced earthquake sequence in northeast British Columbia, Canada, *Seismol. Res. Lett.*, *in press*.
- Tan, F., H. Kao, E. Nissen, and D. Eaton (2019). Seismicity-scanning based on navigated automatic phase-picking, *J. Geophys. Res. Solid Earth*, *124*, doi:10.1029/2018JB017050.
- Dokht, R.M.H., H. Kao, R. Visser, and B. Smith (2019). Seismic event and phase detection using time-frequency representation and convolutional neural networks, *Seismol. Res. Lett.*, *90(2A)*, 481-490, doi:10.1785/0220180308.
- Cao, L., H. Kao, K. Wang, C. Chen, J. Mori, S. Ohmi, and Y. Gao (2019). Spatiotemporal variation of crustal anisotropy in the source area of the 2004 Niigata, central Japan, earthquake, *Bull. Seismol. Soc. Am.*, doi:10.1785/20180195.
- Wang, B., R.M. Harrington, Y. Liu, H. Kao, and H. Yu (2019). Remote dynamic triggering of earthquakes in three unconventional Canadian hydrocarbon regions based on a multi-station matched-filter approach, *Bull. Seismol. Soc. Am.*, *109*, 372-386, doi:10.1785/0120180164.
- Tan, F., Z. Ge, H. Kao, and E. Nissen (2019). Validation of the 3-D phase-weighted relative back projection technique and its application to the 2016 Mw 7.8 Kaikoura earthquake, *Geophys. J. Int.*, *217*, 375-388, doi:10.1093/gji/ggz032.
- Barbaie Mahani, A., and H. Kao (2018). Accurate determination of local magnitude for earthquakes in the Western Canada Sedimentary Basin, *Seismol. Res. Lett.*, *90*, 203-211, doi:10.1785/0220180264.
- Kao, H., R. Hyndman, Y. Jiang, R. Visser, B. Smith, A. Babaie Mahani, L. Leonard, H. Ghofrani, and J. He (2018). Induced seismicity in western Canada linked to tectonic strain rate: Implications for regional seismic hazard, *Geophys. Res. Lett.*, *45*, 11104-11115, doi:10.1029/2018GL079288.
- Kao., H., R. Visser, B. Smith, and S. Venables (2018). Performance assessment of the induced seismicity traffic light protocol (IS-TLP) for northeastern British Columbia and western Alberta, *The Leading Edge*, *37(2)*, 117-126, doi: 10.1190/tle37020117.1.
- Schultz, R., G. Atkinson, D. Eaton, Y.J. Gu, and H. Kao (2018). Hydraulic fracturing volume is associated with induced earthquake productivity in the Duvernay play, *Science*, *359*, 304-308, doi: 10.1126/science.aa0159.
- Babaie Mahani, A., and H. Kao (2018). Ground motion from M1.5 to 3.8 induced earthquakes at hypocentral distance <45 km in the Montney Play of northeast British Columbia, Canada, *Seismol. Res. Lett.*, *89*, 22-34, doi:10.1785/0220170119.
- Cao, L., H. Kao, and K. Wang (2017). Contrasting upper-mantle shear wave anisotropy across the transpressive Queen Charlotte margin, *Tectonophysics*, *717*, 311-320, doi:10.1016/j.tecto.2017.07.025.
- Kuponiyyi, A. P., H. Kao, C. R. van Staal, S. E. Dosso, J. F. Cassidy, and G. D. Spence (2017). Upper crustal investigation of the Gulf of Saint Lawrence region, eastern Canada using ambient noise tomography, *J. Geophys. Res. Solid Earth*, *122(7)*, 5208-5227, doi:10.1002/2016JB013865.
- Babaie Mahani, A., R. Schultz, H. Kao, D. Walker, J. Johnson, and C. Salas (2017). Fluid injection and seismic activity in the northern Montney Play, British Columbia, Canada, with special

- reference to the 17 August 2015 Mw 4.6 induced earthquake, *Bull. Seismol. Soc. Am.*, *107*, 542-552, doi:10.1785/0120160175.
- Visser, R., B. Smith, H. Kao, A. Babaie Mahani, J. Hutchinson, and J. McKay (2017). A comprehensive earthquake catalogue for northeastern British Columbia and western Alberta, 2014–2016, *Geol. Surv. Canada, Open File, 8335*, 28 pp., doi:10.4095/306292
- Tonegawa, T., K. Obana, Y. Yamamoto, S. Kodaira, K. Wang, M. Riedel, H. Kao, and G. Spence (2016). Fracture alignments in marine sediments off Vancouver Island from Ps splitting analysis, *Bull. Seismol. Soc. Am.*, *107*, 387-402, doi: 10.1785/0120160090.
- Babaie Mahani, A., H. Kao, D. Walker, J. Johnson, and C. Salas (2016). Performance evaluation of the regional seismograph network in northeast British Columbia, Canada, for monitoring of induced seismicity, *Seismol. Res. Lett.*, *87*, 648-660, doi: 10.1785/0220150241.
- Atkinson, G. M., D. W. Eaton, H. Ghofrani, D. Walker, B. Cheadle, R. Schultz, R. Shcherbakov, K. Tiampo, J. Gu, R. M. Harrington, Y. Liu, M. v. d. Baan, and H. Kao (2016). Hydraulic fracturing and seismicity in the Western Canada Sedimentary Basin, *Seismol. Res. Lett.*, *87*, doi: 10.1785/0220150263.
- Kao, H., D.W. Eaton, G.M. Atkinson, S. Maxwell, and A. Babaie Mahani (2016). Technical meeting on the traffic light protocol (TLP) for induced seismicity: Summary and recommendations, *Geol. Surv. Canada, Open File 8075*, 20 pp., doi:10.4095/299002.
- Farahbod, A.M., Kao, H., and Cassidy, J.F. (2016). A relocated earthquake catalogue for seismic events in the Horn River Basin, northeast British Columbia, using the single-station location method, *Geol. Surv. Canada Open File 8146*, 58 pp., doi:10.4095/299419.
- Larochelle, S., Y. Liu, and H. Kao (2016). Poroelastic modeling of hydraulic fracturing induced earthquake stress field, *Geol. Surv. Canada Open File 8082*, 27 pp., doi:10.4095/297811.
- Farahbod, A.M., H. Kao, J.F. Cassidy, and D. Walker (2015). How did hydraulic fracturing operations in the Horn River Basin change the seismicity patterns in northeast British Columbia, Canada? *The Leading Edge*, *34*, 658–660, 662–663, doi:10.1190/tle34060658.1.
- Kao, H., S.-J. Shan, and A.M. Farahbod (2015). Source characteristics of the 2012 Haida Gwaii earthquake sequence, *Bull. Seismol. Soc. Am.*, *105*, 1206-1218, doi:10.1785/0120140165.
- Farahbod, A.M., and H. Kao (2015). Spatiotemporal distribution of events during the first week of the 2012 Haida Gwaii aftershock sequence, *Bull. Seismol. Soc. Am.*, *105*, 1231-1240, doi:10.1785/0120140173.
- Farahbod, A.F., H. Kao, D.M. Walker, and J.F. Cassidy (2015). Investigation of regional seismicity before and after hydraulic fracturing in the Horn River Basin, northeast British Columbia, *Can. J. Earth Sci.*, *52*(2), 112-122, doi:10.1139/cjes-2014-0162.
- Hyndman, R.D., P.A. McCrory, A. Wech, H. Kao, and J. Ague (2015). Cascadia subducting plate fluids channeled to fore-arc mantle corner: ETS and silica deposition, *J. Geophys. Res. Solid Earth*, *120*, 4344–4358, doi:10.1002/2015JB011920.
- Obana, K., M. Scherwath, Y. Yamamoto, S. Kodaira, K. Wang, G. Spence, M. Riedel, and H. Kao (2015). Earthquake activity in northern Cascadia subduction zone off Vancouver Island revealed by ocean-bottom seismograph observations, *Bull. Seismol. Soc. Am.*, *105*, 489-495, doi:10.1785/0120140095.
- Bent, A. L. and H. Kao (2015). Crustal structure of Eastern and Central Canada from a Neighborhood Algorithm inversion, *Geol. Surv. Canada Open File 7833*, 68 pp., doi:10.4095/296797.

- Farahbod, A.M., J.F. Cassidy, H. Kao, and D. Walker (2014). Collaborative studies of regional seismicity in northeast British Columbia, *REORDER*, 39 (9), 40-44.
- Cairns, S., H. Kao, A.M. Farahbod, and D. Snyder (2014). Preparing to monitor and distinguish natural and induced seismicity near Norman Wells, Northwest Territories, *REORDER*, 39(9), 34-39.
- Obana, K., M. Scherwath, Y. Yamamoto, S. Kodaira, K. Wang, G. Spence, M. Riedel, and H. Kao (2014). Earthquake activity in northern Cascadia subduction zone off Vancouver Island revealed by ocean-bottom seismograph observations, *Bull. Seismol. Soc. Am*, 105, doi:1785/0120140095.
- Kim, H. S., J. F. Cassidy, S. E. Dosso, and H. Kao (2014). Mapping crustal structure of the Nechako – Chilcotin plateau using teleseismic receiver function analysis, *Can. J. Earth Sci.*, 51, 407-417, doi:10.1139/cjes-2013-0147.
- Evangelidis, C. P., and H. Kao (2014). High-frequency source imaging of the 2011 October 23 Van (Eastern Turkey) earthquake by backprojection of strong motion waveforms, *Geophys. J. Int.*, 196, 1060-1072, doi:10.1093/gji/ggt437.
- Kao, H., S.-J. Shan, J.F. Cassidy, and S.A. Dehler (2014). Crustal structure in the Gulf of St. Lawrence region, Eastern Canada: Preliminary results from receiver function analysis, *Geol. Surv. of Canada Open File 7456*, 48 pp., doi:10.4095/293724.
- Kao, H., Y. Behr, C. A. Currie, R. Hyndman, J. Townend, F.-C. Lin, M. H. Ritzwoller, S.-J. Shan, and J. He (2013). Ambient seismic noise tomography of Canada and adjacent regions: Part I. Crustal structures, *J. Geophys. Res. Solid Earth*, 118, 2013JB010535, doi:10.1002/2013JB010535.
- Chao, K., Z. Peng, H. Gonzalez-Huizar, C. Aiken, B. Enescu, H. Kao, A.A. Velasco, K. Obara, and T. Matsuzawa (2013). A global search for triggered tremor following the 2011 Mw 9.0 Tohoku earthquake, *Bull. Seismol. Soc. Am*, 103, 1551-1571, doi:1785/0120120171.
- Pollitz, F.F., A. Wech, H. Kao, R. Burgmann (2013). Annual modulation of non-volcanic tremor in northern Cascadia, *J. Geophys. Res.*, 118, 2445-2459, doi:10.1002/jgrb.50181.
- Yeh, Y.-L., H. Kao, S. Wen, W.-Y. Chang, and C.-H. Chen (2013). Surface wave tomography and azimuthal anisotropy of the Philippine Sea Plate, *Tectonophysics*, 592, 94-112, doi: 10.1016/j.tecto.2013.02.005.
- Sit, S., M. Brudzinski, and H. Kao (2012). Detecting tectonic tremor through frequency scanning at a single station: Application to the Cascadia margin, *Earth Planet. Sci. Lett.*, 353-354, 134-144, doi: 10.1016/j.epsl.2012.08.002.
- Liao, Y.-C., H. Kao, A. Rosenberger, S.-K. Hsu, and B.-S. Huang (2012). Delineating complex spatiotemporal distribution of earthquake aftershocks: An improved Source-Scanning Algorithm, *Geophys. J. Int.*, 189, 1753-1770, doi: 10.1111/j.1365-246X.2012.05457.x.
- Kao, H., C.-W. Kan, R.-Y. Chen, C.-H. Chang, A. Rosenberger, T.-C. Shin, P.-L. Leu, K.-W. Kuo, and W.-T. Liang (2012). Locating, monitoring, and characterizing typhoon-induced landslides with real-time seismic signals, *Landslides*, 9, doi:10.1007/s10346-012-0322-z.
- Kao, H., S.-J. Shan, A. Bent, C. Woodgold, G. Rogers, J. F. Cassidy, and J. Ristau (2012). Regional centroid-moment-tensor analysis for earthquakes in Canada and adjacent regions: An update, *Seismol. Res. Lett.*, 83, 505-515, doi: 10.1785/gssrl.83.3.505.
- Konstantinou, K.I., S.-J. Lee, Y. Font, and H. Kao (2011). Rupture at the flank of the subducted Gagua ridge: The 18 December 2001 earthquake (Mw6.8) offshore eastern Taiwan, *Phys. Earth Planet. Inter.*, 189, 80-91, doi:10.1016/j.pepi.2011.07.010.

- Chen, R.-Y., H. Kao, and C.-H. Chang (2011). The determination of earthquake's rupture plane by finite dimension source method: Examination by using Ruili, Chiayi earthquake sequence in 1998 as the example, *Meteorological Bulletin (Central Weather Bureau, Taiwan)*, 48, 15-42.
- Cassidy, J.F., N. Balfour, C. Hickson, H. Kao, R. White, J. Caplan-Auerbach, S. Mazzotti, G.C. Rogers, I. Al-Khoubbi, A. Bird, L. Esteban, M. Kelman, and D. McCormack (2011). The 2007 Nazko, British Columbia, earthquake sequence: Injection of magma deep in the crust beneath the Anahim Volcanic Belt, *Bull. Seismol. Soc. Am.*, 101, 1732-1741, doi:10.1785/0120100013.
- Kao, H., K. Wang, H. Dragert, J. Y. Kao, and G. Rogers (2010). Estimating seismic moment magnitude (M_w) of tremor bursts in northern Cascadia: Implications for the "seismic efficiency" of episodic tremor and slip, *Geophys. Res. Lett.*, 37, L19306, doi:10.1029/2010GL044927.
- Kan, C.-W., H. Kao, G.-B. Ou, R.-Y. Chen, and C.-H. Chang (2010). Delineating the rupture planes of an earthquake doublet using Source-Scanning Algorithm: Application to the 3 March 2005 Ilan doublet, northeast Taiwan, *Geophys. J. Int.*, 182, 956-966, doi:10.1111/j.1365-246X.2010.04664.x.
- Wu, W.-N., H. Kao, S.-K. Hsu, C.-L. Lo, and H.-W. Chen (2010). Spatial variation of the crustal stress field along the Ryukyu-Taiwan-Luzon convergent boundary, *J. Geophys. Res.*, 115, B11401, doi:10.1029/2009JB007080.
- Gomberg, J., and the Cascadia 2007 and Beyond Working Group (2010). Slow-slip phenomena in Cascadia from 2007 and beyond: A review, *Geol. Soc. Am. Bull.*, 122, 963-978, doi:10.1130/B30287.
- Kao, H., S.-J. Shan, H. Dragert, and G. Rogers (2009). Northern Cascadia episodic tremor and slip: A decade of observations from 1997 to 2007, *J. Geophys. Res.*, 114, B00A12, doi:10.1029/2008JB006046.
- Brown, J. R., G. C. Beroza, S. Ide, K. Ohta, D. R. Shelly, S. Y. Schwartz, W. Rabbel, M. Thorwart, and H. Kao (2009). Deep low-frequency earthquakes in tremor localize to the plate interface in multiple subduction zones, *Geophys. Res. Lett.*, 36, L19306, doi:10.1029/2009GL040027.
- Lambert, A., H. Kao, G. Rogers, and N. Courtier (2009). Correlation of tremor activity with tidal stress in the northern Cascadia subduction zone, *J. Geophys. Res.*, 114, B00A08, doi:10.1029/2008JB006038.
- Rubinstein, J.L., J. Gomberg, J.E. Vidale, A.G. Wech, H. Kao, K.C. Creager, and G. Rogers (2009). Seismic wave triggering of non-volcanic tremor, episodic tremor and slip, and earthquakes on Vancouver Island, *J. Geophys. Res.*, 114, B00A01, doi:10.1029/2008JB005875.
- Chen, R.-Y., H. Kao, W.-T. Liang, T.-C. Shin, Y.-B. Tsai, and B.-S. Huang (2009). Three-dimensional patterns of seismic deformation in the Taiwan region with special implication from the 1999 Chi-Chi earthquake sequence, *Tectonophysics*, 466, 140-151.
- Kao, H., P.J. Thompson, S.-J. Shan, G. Rogers, H. Dragert, and G. Spence (2008). Tremor activity monitoring in northern Cascadia, *EOS Trans., AGU*, 89(42), 405-406.
- Wang, K., H. Dragert, H. Kao, and E. Roeloffs (2008). Characterizing an "uncharacteristic" ETS event in northern Cascadia, *Geophys. Res. Lett.*, 35, L15303, doi:10.1029/2008GL034415.
- Kao, H., K. Wang, R.-Y. Chen, I. Wada, J. He, and S.D. Malone (2008). Identifying rupture plane of the 2001 Nisqually, Washington, earthquake, *Bull. Seismol. Soc. Am.*, 98, 1546-1558.

- Kao, H., P. J. Thompson, G. Rogers, H. Dragert, and G. Spence (2007). Automatic detection and characterization of seismic tremors in northern Cascadia, *Geophys. Res. Lett.*, *34*, L16313, doi:10.1029/2007GL030822.
- Bustin, A.M.M., R.D. Hyndman, H. Kao, and J. F. Cassidy (2007). Evidence for underthrusting beneath the Queen Charlotte margin, British Columbia, from teleseismic receiver function analysis, *Geophys. J. Int.*, *171*, 1198-1211.
- Kao, H., S.-J. Shan, G. Rogers, and H. Dragert (2007). Migration characteristics of seismic tremors in the northern Cascadia, *Geophys. Res. Lett.*, *34*, L03304, doi:10.1029/2006GL028430.
- Kao, H., and S.-J. Shan (2007). Rapid identification of earthquake rupture plane using Source-Scanning Algorithm, *Geophys. J. Int.*, *168*, 1011-1020.
- Kao, H., S.-J. Shan, H. Dragert, G. Rogers, J. F. Cassidy, K. Wang, T. James, and K. Ramachandran (2006). Spatial-temporal patterns of seismic tremors in northern Cascadia, *J. Geophys. Res.*, *111*, B03309, doi:10.1029/2005JB003727.
- Royle, G. T., A. J. Calvert, and H. Kao (2006). Non-volcanic tremor near the inter-plate boundary during the Cascadia slow-slip event of February 2002, *Geophys. Res. Lett.*, *33*, L18313, doi:10.1029/2006GL027316
- Wang, Z., D. Zhao, J. Wang, and H. Kao (2006). Tomographic evidence for the Eurasian lithosphere subducting beneath South Taiwan, *Geophys. Res. Lett.*, *33*, L18306, doi:10.1029/2006GL027166.
- Calvert, A. J., K. Ramachandran, H. Kao, and M. A. Fisher (2006). Local thickening of the Cascadia forearc crust and the origin of seismic reflectors in the uppermost mantle, *Tectonophysics*, *420*, 175-188.
- Kao, H., S.-J. Shan, H. Dragert, G. Rogers, J.F. Cassidy, and K. Ramachandran (2005). A wide depth distribution of seismic tremors along the northern Cascadia margin, *Nature*, *436*, 841-844.
- Kao, H., and S.-J. Shan (2004). The Source-Scanning Algorithm: mapping the distribution of seismic sources in time and space, *Geophys. J. Int.*, *157*, 589-594.
- Carena, S., J. Suppe, and H. Kao (2004). Lack of continuity of the San Andreas Fault in southern California: Three-dimensional fault models and earthquake scenarios, *J. Geophys. Res.*, *109*, B04313, doi:10.1029/2003JB002643.
- Christova, C., C. H. Scholz, and H. Kao (2004). Stress field in the Vanuatu (New Hebrides) Wadati-Benioff zone inferred by inversion of earthquake focal mechanisms: Evidence for systematic lateral and vertical variations of principal stresses, *J. of Geodynamics*, *37*, 125-137.
- Font, Y., H. Kao, S. Lallemand, C. Liu, and L. Chiao (2004). Hypocentral determination offshore eastern Taiwan using the Maximum Interception Method, *Geophys. J. Int.*, *158*, 655-675.
- Liang, W.-T., Y.-H. Liu, and H. Kao (2004). Source parameters of regional earthquakes in Taiwan: January-December, 2002, *Terr. Atmos. Oceanic Sci.*, *15*, 727-741.
- Kim, K.-H., J.-M. Chiu, H. Kao, Q. Liu, Y.-H. Yeh (2004). A preliminary study of crustal structure in Taiwan region using receiver function analysis, *Geophys. J. Int.*, *159*, 146-164.
- Chang, C.-P., T.-Y. Chang, J. Angelier, H. Kao, J.-C. Lee, and S.-B. Yu (2003). Strain and stress field in Taiwan oblique convergent system: Constraints from GPS observations and tectonic data, *Earth Planet. Sci. Lett.*, *214*, 115-127.

- Font, Y., H. Kao, C.-S. Liu, and L.-Y. Chiao (2003). A comprehensive 3D seismic velocity model for the eastern Taiwan-southernmost Ryukyu regions, *Terr. Atmos. Oceanic Sci.*, *14*, 159-182.
- Liang, W.-T., Y.-H. Liu, and H. Kao (2003). Source parameters of regional earthquakes in Taiwan: January-December, 2001, *Terr. Atmos. Oceanic Sci.*, *14*, 249-260.
- Konstantinou, K. I., H. Kao, C.-H. Lin, and W.-T. Liang (2003). Analysis of broad-band regional waveforms of the 1996 September 29 earthquake at Bárðarbunga volcano, central Iceland: investigation of the magma injection hypothesis, *Geophys. J. Int.*, *154*, 134-145.
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