




W Gary Ernst

The Benjamin M. Page Professor in Earth Sciences, Emeritus
Geological Sciences

 NIH Biosketch available Online

 Curriculum Vitae available Online

Bio

BIO

W. Gary Ernst held pre- and postdoctoral fellowships at the Geophysical Laboratory, then joined the UCLA faculty in January 1960. Moving to Stanford in 1989, Ernst went emeritus in September 2004. A member of the National Academy of Sciences, the American Academy of Arts & Sciences, and the American Philosophical Society, Ernst was president of the Mineralogical Society of America (1980-81) and the Geological Society of America (1985-86). He received the MSA Award (1969), the Geological Society of Japan Medal (1998), the Penrose Medal of the GSA (2004), the Roebling Medal of the MSA (2006), the AGI Legendary Geoscientist Award (2008), and the Distinguished Career Award of the International Section of the GSA (2010). Author of seven books and research memoirs, editor or co-editor of 19 others, Ernst is author or co-author of 300 scientific papers dealing with: physical chemistry of rocks and minerals; Phanerozoic interactions of lithospheric plates and orogenic belts, especially in central Asia, the Circumpacific and the western Alps; early Precambrian petroctectonic evolution; high- and ultrahigh-pressure subduction-zone metamorphism and tectonics; geobotanical studies/remote sensing; and geology and human health. He taught Introduction to Earth Systems and then Igneous and Metamorphic Petrology through 2017 at Stanford, and still conducts research chiefly in northern California and eastern Asia.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Geological Sciences
- Affiliate, Precourt Institute for Energy
- Affiliate, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- 1960 – 1963 | Assistant Professor of Geology and Geophysics, UCLA, University of California, Los Angeles, (1960-1963)
- Associate Professor of Geology and Geophysics, UCLA, (1963-1968)
- Professor of Geology and Geophysics, UCLA, (1968-1989)
- Chair, Department of Geology, UCLA, (1970-1974)
- Chair, Department of Earth and Space Sciences, UCLA, (1978-1982)
- Director, Institute of Geophysics and Planetary Physics, UCLA, (1987-1989)
- Dean, School of Earth Sciences, Stanford, (1989-1994)
- Professor of Geology and Geophysics, Stanford University, (1989-1993)
- Professor of Geological and Environmental Sciences, Stanford University, (1993-2004)
- Professor Emeritus of Geological and Environmental Sciences, Stanford University, (2004- present)

HONORS AND AWARDS

- Mineralogical Society of America Award, Mineralogical Society of America (1969)

- Member, National Academy of Sciences (1975)
- Fellow, American Academy of Arts and Science (1976)
- Chair, Section 15, National Academy of Sciences (1979-1982)
- President, Mineralogical Society of America (1980-1981)
- President, Geological Society of America (1985-1986)
- Member, American Philosophical Society (1994)
- Secretary, Class I, National Academy of Sciences (1997 – 2000)
- Geological Society of Japan Medal, Geological Society of Japan (1998)
- Benjamin M. Page Chair, Benjamin M. Page Organization (1999)
- Chair, Class I, National Academy of Sciences (2000-2003)
- Penrose Medal of the Geological Society of America, Geological Society of America (2004)
- Roebling Medal, Mineralogical Society of America (2006)
- AGI Legendary Geoscientist Award, AGI (2008)
- Distinguished Career Award, GSA International Section (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Jasper Ridge Advisory Committee (2006 - 2017)
- Trustee, Carnegie Institution of Washington (1990 - 2017)
- Invited lectures, Virginia Tech University, Cal State San Jose (2012 - 2012)
- Invited lectures, Texas A & M University; Potsdam University (3) (2002 - 2002)
- Member, Visiting Committee, Harvard University (1995 - 1997)
- Member, White Mountain Research Station Advisory Committee to U.C. President (1990 - 2015)
- Invited lectures, Academia Sinica Institute of Earth Sciences, National Taiwan University, National Dong Hwa University, Cal State Fresno, Cal State San Jose (2011 - 2011)
- Invited lectures, University of Oklahoma, Academia Sinica Institute of Earth Sciences, National Taiwan University, University of Texas at Austin; Palo Alto Fellowship Forum (2010 - 2010)
- Invited lectures, Northern California Geological Society, Seoul National University, Korea Basic Science Institute, Institute for Study of the Earth's Interior, Okayama University (2), University of California, Los Angeles, Central Washington University, Northern California Section, Society of Mining, Metallurgy, and Exploration (2009 - 2009)
- Editorial Board, Proceedings of the National Academy of Sciences (2007 - present)
- Member, International Initiative Executive Committee (2005 - 2007)
- Member, Institute for the Environment Academic Committee (2005 - 2007)
- Invited lectures, University of Texas at Austin (3) (2005 - 2005)
- Invited lectures, Cal State San Francisco (2004 - 2004)
- Member, 15-Year Review Committee, U. C. Statewide Institute of Geophysics and Planetary Physics (2004 - 2005)
- Member, Visiting Committee, U. C. Santa Barbara (2004 - 2004)
- Member, Interdisciplinary Graduate Program in the Environment and Resources (2003 - present)
- Organizer, Dec.6-7, 2003 Coleman Symposium (2003 - 2003)
- Invited lectures, University of Tennessee (2), Virginia Tech (2003 - 2003)
- Chair, Visiting Committee, Texas A & M University (2002 - 2002)
- Editorial Board, Proceedings of the National Academy of Sciences (2001 - 2004)

- Invited lectures, Carnegie Institution Geophysical Laboratory; San Jose State University; University of Arizona; White Mountain Research Station, U. C. (2); Chinese Academy of Geological Sciences; Hopkins Marine Station; Peninsula Geological Society; Caltech; Universit di Genova (2001 - 2001)
- Chair, Visiting Committee, University of Arizona (2001 - 2001)
- Organizer with Simon Klemperer, Dec. 8-9, 2001 Thompson Symposium (2001 - 2001)
- Invited lectures, Peninsula Geological Society, University of Oklahoma (2) (2000 - 2000)
- Chair, Visiting Committee, Carnegie Institution Geophysical Laboratory (1999 - 1999)
- Invited lectures, White Mountain Research Station, U. C.; Alfred Wegener Conference, Verbania, Italy (1999 - 1999)
- Member, (NRC/BESR) Committee to Review Volcano Hazards Program, USGS (1999 - 2000)
- Member, Visiting Committee, Iowa State University (1998 - 2006)
- Member, Visiting Committee, Carnegie Institution Department of Terrestrial Magnetism (1998 - 1998)
- Invited lectures, UCLA; Iowa State University; American Philosophical Society; Caltech (1998 - 1998)
- Chair, MSA Public Service Medal Committee (1998 - 2001)
- Member, Visiting Committee, Carnegie Institution Observatories (1997 - 1997)
- Invited lectures, Peninsula Geological Society; U. C. White Mountain Research Station; Kyoto University; Waseda University; Arizona State University; Texas Tech University; Geophysical Laboratory; U.S.G.S., Reston; Geological Society of Washington, D.C. (1997 - 1997)
- President, Peninsula Geological Society (1996 - 2002)
- Editor, International Geology Review (1995 - 2013)
- Member, Committee on Public Affairs, American Geophysical Union (1993 - 1996)
- Member, Dibblee Geological Foundation (1991 - 2000)
- Member, U.S. National Committee, Pacific Sciences Association, National Research Council (1988 - 1996)

PROFESSIONAL EDUCATION

- Ph.D., Johns Hopkins University , Geochemistry, (1959)
- M.S., University of Minnesota , Geology (1955)
- B.A., Carleton College , Geology (1953)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Petrology/geochemistry and plate tectonics of Circumpacific and Alpine mobile belts; ultrahigh-pressure metamorphism in Eurasia; geology of the California Coast Ranges, the central Klamath Mountains, and White-Inyo Range; geobotany and remote sensing of the American Southwest; mineralogy and human health.

Publications

PUBLICATIONS

- **Characteristics and implications of podiform-chromite hosted silicate inclusions in the Zedang ophiolite, Southern Tibet** *LITHOS*
Guo, G., Mao, W. L., Zhang, R. Y., Liou, J. G., Ernst, W. G., Yang, J., Liu, X., Xu, X., Zhang, Y., Wu, B.
2021; 396
- **U-Pb detrital zircon ages of Cambrian-Ordovician sandstones from the Taebaeksan Basin, Korea: Provenance variability in platform shelf sequences and paleogeographic implications** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
Cho, M., Cheong, W., Ernst, W. G., Kim, Y., Yi, K.
2021; 133 (3-4): 488-504
- **Evolution of the Eastern Ghats Belt, India: A Magmatic Perspective** *JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA*
Kumar, K., Leelanandam, C., Ernst, W. G.
2021; 97 (2): 217

- **How American Mineralogist and the Mineralogical Society of America influenced a career in mineralogy, petrology, and plate pushing, and thoughts on mineralogy's future role** *AMERICAN MINERALOGIST*
Ernst, W. G.
2020; 105 (9): 1285–96
- **SHRIMP U-Pb ages of zircons from mafic granulites of the Eastern Ghats Belt, SE India: Implications for the evolution of the palaeoproterozoic arc crust** *JOURNAL OF ASIAN EARTH SCIENCES*
Kumar, K., Ernst, W. G., Leelanandam, C., Wooden, J. L.
2019; 177: 198–219
- **Paleozoic granitic magmatism and tectonic evolution of the South Altun block, NW China: Constraints from zircon U-Pb dating and Lu-Hf isotope geochemistry** *JOURNAL OF ASIAN EARTH SCIENCES*
Wu, C., Chen, H., Wu, D., Ernst, W. G.
2018; 160: 168–99
- **Late Mesozoic high-K calc-alkaline magmatism in Southeast China: the Tongling example** *INTERNATIONAL GEOLOGY REVIEW*
Wu, C., Dong, S., Wu, D., Zhang, X., Ernst, W. G.
2018; 60 (11-14): 1326–60
- **Trace element zoning in hornblende: Tracking and modeling the crystallization of a calc-alkaline arc pluton** *AMERICAN MINERALOGIST*
Barnes, C. G., Berry, R., Barnes, M. A., Ernst, W. G.
2017; 102 (12): 2390–2405
- **Earth's thermal evolution, mantle convection, and Hadean onset of plate tectonics** *JOURNAL OF ASIAN EARTH SCIENCES*
Ernst, W. G.
2017; 145: 334–48
- **Geologic evolution of a Cretaceous tectonometamorphic unit in the Franciscan Complex, western California** *INTERNATIONAL GEOLOGY REVIEW*
Ernst, W. G.
2017; 59 (5-6): 563-576
- **U-Pb Ages and Sedimentary Provenance of Detrital Zircons from Eastern Hayfork Meta-argillites, Sawyers Bar Area, Northwestern California** *JOURNAL OF GEOLOGY*
Ernst, W. G., Wu, C., Lai, M., Zhang, X.
2017; 125 (1): 33-44
- **New P-T constraints on the Tamayen glaucophane-bearing rocks, eastern Taiwan: Perple_X modelling results and geodynamic implications** *JOURNAL OF METAMORPHIC GEOLOGY*
Baziotis, I., Tsai, C., Ernst, W. G., Jahn, B., Iizuka, Y.
2017; 35 (1): 35-54
- **High-pressure metamorphism in the Chinshuichi area, Yuli belt, eastern Taiwan** *TECTONOPHYSICS*
Keyser, W., Tsai, C., Iizuka, Y., Oberhaensli, R., Ernst, W. G.
2016; 692: 191-202
- **Plate-tectonic evolution of the Earth: bottom-up and top-down mantle circulation1** *CANADIAN JOURNAL OF EARTH SCIENCES*
Ernst, W. G., Sleep, N. H., Tsujimori, T.
2016; 53 (11): 1103-1120
- **Zircon U-Pb ages and petrologic evolution of the English Peak granitic pluton: Jurassic crustal growth in northwestern California** *GEOSPHERE*
Ernst, W. G., Gottlieb, E. S., Barnes, C. G., Hourigan, J. K.
2016; 12 (5): 1422-1436
- **Petrology and Geochemistry of an Upper Crustal Pluton: a view into Crustal-scale Magmatism during Arc to Retro-arc Transition** *JOURNAL OF PETROLOGY*
Barnes, C. G., Ernst, W. G., Berry, R., Tsujimori, T.
2016; 57 (7): 1361-1388
- **Discovery of in situ super-reducing, ultrahigh-pressure phases in the Luobusa ophiolitic chromitites, Tibet: New insights into the deep upper mantle and mantle transition zone** *AMERICAN MINERALOGIST*
Zhang, R. Y., Yang, J., Ernst, W. G., Jahn, B., Iizuka, Y., Guo, G.

2016; 101 (5-6): 1285-1294

- **Franciscan melanges: coherent blocks in a low-density, ductile matrix** *INTERNATIONAL GEOLOGY REVIEW*
Ernst, W. G.
2016; 58 (5): 626-642
- **Assembling the world's type shallow subduction complex: Detrital zircon geochronologic constraints on the origin of the Nacimiento block, central California Coast Ranges** *GEOSPHERE*
Chapman, A. D., Jacobson, C. E., Ernst, W. G., Grove, M., Dumitru, T., Hourigan, J., Ducea, M. N.
2016; 12 (2): 533-557
- **Detrital zircon geochronology of Neoproterozoic-Lower Cambrian passive-margin strata of the White-Inyo Range, east-central California: Implications for the Mojave-Snow Lake fault hypothesis** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
Chapman, A. D., Ernst, W. G., Gottlieb, E., Powerman, V., Metzger, E. P.
2015; 127 (7-8): 926-944
- **Detrital zircon U-Pb reconnaissance of the Franciscan subduction complex in northwestern California** *INTERNATIONAL GEOLOGY REVIEW*
Dumitru, T. A., Ernst, W. G., Hourigan, J. K., McLaughlin, R. J.
2015; 57 (5-8): 767-800
- **Franciscan geologic history constrained by tectonic/olistostromal high-grade metamafic blocks in the iconic California Mesozoic-Cenozoic accretionary complex** *AMERICAN MINERALOGIST*
Ernst, W. G.
2015; 100 (1): 6-13
- **Recycling of crustal materials through study of ultrahigh-pressure minerals in collisional orogens, ophiolites, and mantle xenoliths: A review** *JOURNAL OF ASIAN EARTH SCIENCES*
Liou, J. G., Tsujimori, T., Yang, J., Zhang, R. Y., Ernst, W. G.
2014; 96: 386-420
- **Lawsonite blueschists and lawsonite eclogites as proxies for palaeo-subduction zone processes: a review** *JOURNAL OF METAMORPHIC GEOLOGY*
Tsujimori, T., Ernst, W. G.
2014; 32 (5): 437-454
- **Petrogenesis of the Barcroft pluton, northern White-Inyo Mountains, east-central California** *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*
Ernst, W. G.
2013; 165 (3): 419-435
- **Diverse mineral compositions, textures, and metamorphic P-T conditions of the glaucophane-bearing rocks in the Tamayen melange, Yuli belt, eastern Taiwan** *JOURNAL OF ASIAN EARTH SCIENCES*
Tsai, C., Iizuka, Y., Ernst, W. G.
2013; 63: 218-233
- **SHRIMP U-Pb ages of detrital zircons in metasedimentary rocks of the central Ogcheon fold-thrust belt, Korea: Evidence for tectonic assembly of Paleozoic sedimentary protoliths** *JOURNAL OF ASIAN EARTH SCIENCES*
Cho, M., Cheong, W., Ernst, W. G., Yi, K., Kim, J.
2013; 63: 234-249
- **Eocene extension in Idaho generated massive sediment floods into the Franciscan trench and into the Tye, Great Valley, and Green River basins** *GEOLOGY*
Dumitru, T. A., Ernst, W. G., Wright, J. E., Wooden, J. L., Wells, R. E., Farmer, L. P., Kent, A. J., Graham, S. A.
2013; 41 (2): 187-190
- **Earliest Cretaceous Pacificward offset of the Klamath Mountains salient, NW California-SW Oregon** *LITHOSPHERE*
Ernst, W. G.
2013; 5 (1): 151-159
- **Mineralogy, petrology, U-Pb geochronology, and geologic evolution of the Dabie-Sulu classic ultrahigh-pressure metamorphic terrane, East-Central China** *AMERICAN MINERALOGIST*
Liou, J. G., Zhang, R., Liu, F., Zhang, Z., Ernst, W. G.
2012; 97 (10): 1533-1543

- **Overview of naturally occurring Earth materials and human health concerns** *JOURNAL OF ASIAN EARTH SCIENCES*
Ernst, W. G.
2012; 59: 108-126
- **LEON KNOPOFF 1 JULY 1925 . 20 JANUARY 2011** *PROCEEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY*
Ernst, W. G., Davis, P. M., Jackson, D. D., Gilbert, F.
2012; 156 (3): 347-352
- **Vertical zonation of the Barcroft granodiorite, White Mountains, California: Implications for magmatic processes** *AMERICAN MINERALOGIST*
Ferre, E. C., Michelsen, K. J., Ernst, W. G., Boyd, J. D., Canon-Tapia, E.
2012; 97 (7): 1049-1059
- **Detrital zircons from the Tananao metamorphic complex of Taiwan: Implications for sediment provenance and Mesozoic tectonics** *TECTONOPHYSICS*
Yui, T. F., Maki, K., Lan, C. Y., Hirata, T., Chu, H. T., Kon, Y., Yokoyama, T. D., JAHN, B. M., Ernst, W. G.
2012; 541: 31-42
- **Presentation of the 2011 Roebling Medal of the Mineralogical Society of America to Juhn G. Liou** *AMERICAN MINERALOGIST*
Ernst, W. G.
2012; 97 (5-6): 1005-1005
- **Mineral parageneses, regional architecture, and tectonic evolution of Franciscan metagraywackes, Cape Mendocino-Garberville-Covelo 30' x 60' quadrangles, northwest California** *TECTONICS*
Ernst, W. G., McLaughlin, R. J.
2012; 31
- **Two different magma series imply a Palaeogene tectonic transition from contraction to extension in the SE Korean Peninsula** *INTERNATIONAL GEOLOGY REVIEW*
Hwang, B., Ernst, W. G., Yang, K.
2012; 54 (11): 1284-1295
- **Overview of naturally occurring Earth materials and human health concerns** *Journal of Asian Earth Science*
Ernst, W. G.
2012
- **Vertical zonation of the Barcroft granodiorite, White Mountains, California: implications for magmatic processes** *American Mineralogist*
Ferré, E. C., Michelsen, K. C., Ernst, W. G., Boyd, J. D., Canon-Tapia, E. J.
2012
- **Mineral parageneses, regional architecture, and tectonic evolution of Franciscan metagraywackes, Cape Mendocino-Garberville-Covelo 30' x 60' quadrangles, northwest California** *Tectonics*
Ernst, W. G., McLaughlin, R. J.
2012; 31
- **Detrital zircons from the Tananao Metamorphic Complex of Taiwan: implications for sediment provenance and Mesozoic tectonics** *Tectonophysics*
Yui, T. F., Lan, C. Y., Maki, K., Hirata, T., Chu, H. T., Kon, Y., Yokoyama, T. D., Jahn, B. M., Ernst, W. G.
2012; 541-543
- **Two different magma series imply a Paleocene tectonic transition from contraction to extension in the SE Korean Peninsula** *International Geology Review*
Hwang, B. H., Ernst, W. G.
2012; 54
- **Origin of similar to 2.5 Ga potassic granite from the Nellore Schist Belt, SE India: textural, cathodoluminescence, and SHRIMP U-Pb data** *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*
Kumar, K. V., Ernst, W. G., Leelanandam, C., Wooden, J. L., Grove, M. J.
2011; 162 (4): 867-888
- **Accretion of the Franciscan Complex attending Jurassic-Cretaceous geotectonic development of northern and central California** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
Ernst, W. G.
2011; 123 (9-10): 1667-1678

- **Zircon U-Pb age of the Pescadero felsite: A Late Cretaceous igneous event in the forearc, west-central California Coast Ranges** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
Ernst, W. G., Martens, U. C., McLaughlin, R. J., Clark, J. C., Moore, D. E.
2011; 123 (7-8): 1497-1512
- **Experimental kinetic study of organic matter maturation: Time and pressure effects on vitrinite reflectance at 400 degrees C** *ORGANIC GEOCHEMISTRY*
Le Bayon, R., Brey, G. P., Ernst, W. G., Maehlmann, R. F.
2011; 42 (4): 340-355
- **Formation and fragmentation of the Palaeoproterozoic supercontinent Columbia: evidence from the Eastern Ghats Granulite Belt, southeast India** *INTERNATIONAL GEOLOGY REVIEW*
Kumar, K. V., Leelanandam, C., Ernst, W. G.
2011; 53 (11-12): 1297-1311
- **U-Pb ages of detrital zircons from Korean fold-thrust belts: Implications for the Paleozoic crustal architecture of East Asia** *Geology*
Cho, M., Cheong, W., Ernst, W. G., Yi, K., Kim, J.
2011
- **Experimental kinetic study of organic matter maturation: Time and pressure effects on vitrinite reflectance at 400°C** *Organic Geochemistry*
Bayon, L., R., M., Brey, G. P., Ernst, W. G., Ferreiro Mählmann, R.
2011; 42: 340-355
- **Origin of 2.5 Ga potassic granite from the Nellore Schist Belt, SE India: Textural, cathodoluminescence and SHRIMP U-Pb data** *Contributions to Mineralogy and Petrology*
Kumar, V., K., Ernst, G., W., Leelanandam, C., Wooden, J. L., M. J. Grove, M. J.
2011; 162: 867-888
- **Accretion of the Franciscan Complex attending Jura-Cretaceous geotectonic development of northern and central California** *Geological Society of America Bulletin*
Ernst, W. G.
2011; 123: 1667-1678
- **Formation and fragmentation of the Paleoproterozoic supercontinent Columbia: Evidence from the Eastern Ghats Granulite Belt, SE India** *International Geology Review*
Vijaya Kumar, K., C., Leelanandam, Ernst, W.
2011; 53: 1297-1311
- **Regional Detrital Zircon Provenance of Exotic Metasandstone Blocks, Eastern Hayfork Terrane, Western Paleozoic and Triassic Belt, Klamath Mountains, California** *JOURNAL OF GEOLOGY*
Scherer, H. H., Ernst, W. G., Wooden, J. L.
2010; 118 (6): 641-653
- **Subduction-zone metamorphism, calc-alkaline magmatism, and convergent-margin crustal evolution** *GONDWANA RESEARCH*
Ernst, W. G.
2010; 18 (1): 8-16
- **Late Mesozoic subduction-induced hydrothermal gold deposits along the eastern Asian and northern Californian margins: Oceanic versus continental lithospheric underflow** *ISLAND ARC*
Ernst, W. G.
2010; 19 (2): 213-229
- **First Paleoproterozoic ophiolite from Gondwana: Geochronologic-geochemical documentation of ancient oceanic crust from Kandra, SE India** *TECTONOPHYSICS*
Kumar, K. V., Ernst, W. G., Leelanandam, C., Wooden, J. L., Grove, M. J.
2010; 487 (1-4): 22-32
- **Young convergent-margin orogens, climate, and crustal thickness-A Late Cretaceous-Paleogene Nevadaplano in the American Southwest?** *LITHOSPHERE*
Ernst, W. G.
2010; 2 (2): 67-75

- **Detrital zircon evidence for progressive underthrusting in Franciscan metagraywackes, west-central California** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
Snow, C. A., Wakabayashi, J., Ernst, W. G., Wooden, J. L.
2010; 122 (1-2): 282-291
- **Subduction-zone metamorphism--pioneering contributions from the Alps** *International Geology Review*
Ernst, W. G.
2010; 52: 1021-1039
- **Late Mesozoic subduction-induced gold deposits along the eastern Asian and northern Californian margins: efficacy of oceanic versus continental lithospheric underflow** *Island Arc*
Ernst, W. G.
2010; 19: 213-229
- **Young convergent plate-margin orogens, climate, and crustal thickness--A Late Cretaceous-Paleogene Nevadaplano in the American Southwest?** *Lithosphere*
Ernst, W. G.
2010; 2: 67-75
- **SHRIMP-based depositional ages of Franciscan metagraywackes, west-central California** *Geological Society of America Bulletin*
Snow, C. A., Wakabayashi, J., Ernst, W. G., Wooden, J. L.
2010; 122: 282-291
- **First Paleoproterozoic ophiolite from Gondwana: Geochronologic-geochemical documentation of ancient oceanic from Kandra, SE India** *Tectonophysics*
Kumar, V., K., Ernst, G., W., Leelanandam, C., Wooden, J. L., M. J. Grove, M. J.
2010; 487: 22-32
- **Subduction zone metamorphism - pioneering contributions from the Alps** *INTERNATIONAL GEOLOGY REVIEW*
Ernst, W. G.
2010; 52 (10-12): 1021-1039
- **U-Pb ages of detrital zircons in Pacheco Pass metagraywackes: Sierran-Klamath source of mid-Cretaceous and Late Cretaceous Franciscan deposition and underplating** *TECTONICS*
Ernst, W. G., Martens, U., Valencia, V.
2009; 28
- **Metamorphic P-T conditions and thermal structure of Chinese Continental Scientific Drilling main hole eclogites: Fe-Mg partitioning thermometer vs. Zr-in-rutile thermometer** *33rd International Geological Congress (IGC)*
Zhang, R. Y., Iizuka, Y., Ernst, W. G., Liou, J. G., Xu, Z., Tsujimori, T., Lo, C., Jahn, B.
WILEY-BLACKWELL.2009: 757-72
- **Guadalupe pluton-Mariposa Formation age relationships in the southern Sierran Foothills: Onset of Mesozoic subduction in northern California?** *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*
Ernst, W. G., Saleeby, J. B., Snow, C. A.
2009; 114
- **The Dabie-Sulu continental collision zone: A comprehensive review** *GONDWANA RESEARCH*
Zhang, R. Y., Liou, J. G., Ernst, W. G.
2009; 16 (1): 1-26
- **Ultrahigh-pressure minerals and metamorphic terranes - The view from China** *8th International Eclogite Conference*
Liou, J. G., Ernst, W. G., Zhang, R. Y., Tsujimori, T., JAHN, B. M.
PERGAMON-ELSEVIER SCIENCE LTD.2009: 199-231
- **Tectonics and HP-UHP metamorphism of northern Tibet - Preface** *JOURNAL OF ASIAN EARTH SCIENCES*
Liou, J. G., Ernst, W. G., Song, S. G., JAHN, B. M.
2009; 35 (3-4): 191-198
- **Archean plate tectonics, rise of Proterozoic supercontinentality and onset of regional, episodic stagnant-lid behavior** *GONDWANA RESEARCH*
Ernst, W. G.

2009; 15 (3-4): 243-253

- **Rise and fall of the Nevadaplano** PREFACE *INTERNATIONAL GEOLOGY REVIEW*
Ernst, W. G.
2009; 51 (7-8): 583-588
- **Mining, Society and a Sustainable World**
Ernst, W. G.
Springer-Verlag, 2009
- **Tectonics and HP-UHP metamorphism of northern Tibet: Preface** *Journal of Asian Earth Science*
Liou, J. G., Ernst, W. G., Song, S. G., Jahn, B. M.
2009; 35: 191-198
- **Archean plate tectonics, rise of Proterozoic supercontinentality and onset of regional, episodic stagnant-lid behavior** *Gondwana Research*
Ernst, W. G.
2009; 15: 243-253
- **Metamorphic P-T conditions and thermal structure of Chinese Continental Scientific Drilling main hole eclogites: Fe-Mg partitioning thermometer v. Zr-in-rutile thermometer** *Journal of Metamorphic Geology*
Zhang, R. Y., Iizuka, Y., Ernst, W. G., Liou, J. G., Xu, Z. Q., Tsujimori, T., Lo, C., Jahn, B.
2009; 27: 16
- **U-Pb ages of detrital zircons in Pacheco Pass metagraywackes: Sierran-Klamath source of mid- and Late Cretaceous Franciscan deposition and underplating** *Tectonics*
Ernst, W. G., Martens, U., Valencia, V.
2009; 28
- **Rise and fall of the Nevadaplano** *International Geology Review*
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