Stanford



W Gary Ernst

The Benjamin M. Page Professor in Earth Sciences, Emeritus

Earth & Planetary 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 petrotectonic 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, Earth & Planetary 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 cental 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 Tyee, 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

- **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

- **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*
  Ernst, W. G.
  2009; 51: 583-588
- **Guadalupe pluton-Mariposa Formation age relationships in the southern Sierran Foothills: Onset of Mesozoic subduction in northern California?** *Journal of Geophysical Research*
  Ernst, W. G., Saleeby, J. B., Snow, C. A.
  2009; 114
- **The Dabie-Sulu collision zone: A comprehensive review** *Gondwana Research*
  Zhang, R. Y., Liou, J. G., Ernst, W. G.
  2009; 16: 1-26
- **Ultrahigh-pressure minerals and metamorphic terranes--The view from China** *Journal of Asian Earth Science*
  Liou, J. G., Ernst, W. G., Zhang, R. Y., Tsujimori, T., Jahn, B. M.

2009; 35: 199-231

- **Geometric model of conjugate faulting in the Gyeongsang Basin, southeast Korea** *TECTONICS*
  Hwang, B., Ernst, W. G., McWilliams, M., Yang, K.
  2008; 27 (6)
- **High- and ultrahigh-pressure metamorphism: Past results and future prospects** *AMERICAN MINERALOGIST*
  Ernst, W. G., Liou, J. G.
  2008; 93 (11-12): 1771-1786
- **Mesozoic transpression, transtension, subduction and metallogenesis in northern and central California** *TERRA NOVA*
  Ernst, W. G., Snow, C. A., Scherer, H. H.
  2008; 20 (5): 394-413
- **Tectonic evolution of the Gyeongsang basin, southeastern Korea from 140 ma to the present, based on a strike-slip and block rotation tectonic model** *INTERNATIONAL GEOLOGY REVIEW*
  Hwang, B., Son, M., Yang, K., Yoon, J., Ernst, W. G.
  2008; 50 (4): 343-363
- **Geologic implications of new zircon U-Pb ages from the White Mountain Peak Metavolcanic Complex, eastern California** *TECTONICS*
  Scherer, H. H., Ernst, W. G., Hanson, R. B.
  2008; 27 (2)
- **Contrasting early and late Mesozoic petrotectonic evolution of northern California** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Ernst, W. G., Snow, C. A., Scherer, H. H.
  2008; 120 (1-2): 179-194
- **Ores and Orogenesis: Circum-Pacific Tectonics, Geologic Evolution, and Ore Deposits v 22**
  Ernst, W. G., Tsujimori, T., Zhang, R. Y., Liou, J. G.
  Arizona Geol. Soc. Digest.2008: 151–180
- **Mesozoic transpression, transtension, subduction, and metallogenesis in northern and central California** *Terra Nova*
  Ernst, W. G., Snow, C. A., Scherer, H. H.
  2008; 20: 394-413
- **Geologic implications of new zircon U-Pb ages from the White Mountain Peak Metavolcanic Complex, eastern California** *Tectonics*
  Scherer, H. H., Ernst, W. G., Hanson, R. B.
  2008; 27: 9
- **Detrital zircon constraints on sediment distribution and provenance of the Mariposa Formation, central Sierra Nevada foothills, California** *Symposium on Ophiolites, Batholiths and Regional Geology in Honor of Cliff Hopson*
  Snow, C. A., Ernst, W. G.
  GEOLOGICAL SOC AMER INC.2008: 311–330
- **Geometric model of conjugate faulting in the Gyeongsang Basin, southeast Korea** *Tectonics*
  Hwang, B. H., Ernst, W. G., McWilliams, M. O., Yang, K. H.
  2008; 27
- **High- and ultrahigh-pressure metamorphism--past results and future prospects** *American Mineralogist*
  Ernst, W. G., Liou, J. G.
  2008; 93: 1771-1786
- **Ophiolites, Arcs, and Batholiths: A Tribute to Cliff Hopson**
  Scherer, H. H., Ernst, W. G.
  Geological Society of America Special Paper No. 438.2008: 289–310
- **North Fork terrane, Klamath Mountains, California: Geologic, geochemical, and geochronologic evidence for an early Mesozoic forearc** *Symposium on Ophiolites, Batholiths and Regional Geology in Honor of Cliff Hopson*
  Scherer, H. H., Ernst, W. G.
  GEOLOGICAL SOC AMER INC.2008: 289–309

- **Ultrahigh-pressure metamorphic belts in China: Major progress in the past several years** *INTERNATIONAL GEOLOGY REVIEW*
  Zhang, R. Y., Liou, J. G., Ernst, W. G.
  2007; 49 (6): 504-519
- **Very high-pressure orogenic garnet peridotites** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Liou, J. G., Zhang, R. Y., Ernst, W. G.
  2007; 104 (22): 9116-9121
- **Acceptance of the Mineralogical Society of America Roebling Medal for 2006** *AMERICAN MINERALOGIST*
  Ernst, W. G.
  2007; 92 (5-6): 979-979
- **Speculations on evolution of the terrestrial lithosphere-asthenosphere system - Plumes and plates** *GONDWANA RESEARCH*
  Ernst, W. G.
  2007; 11 (1-2): 38-49
- **Plant species distributions under present conditions and forecasted for warmer climates in an arid mountain range** *EARTH INTERACTIONS*
  Van de Ven, C. M., Weiss, S. B., Ernst, W. G.
  2007; 11
- **4-D Framework of Continental Crust**
  Ernst, W. G.
  Geological Society of America Memoir 200.2007: 159–179
- **Plant species distributions under present conditions and forecasted for warmer climates in an arid mountain range** *American Geophysical Union Earth Interactions*
  de Ven, V., M., C., Weiss, S. B., Ernst, W. G.
  2007; 11
- **Speculations on evolution of the terrestrial lithosphere-asthenosphere system--Plumes and plates** *Gondwana Research*
  Ernst, W. G.
  2007; 11: 38-49
- **Acceptance of the Mineralogical Society of America Roebling Medal for 2006** *American Mineralogist*
  Ernst, W. G.
  2007; 92: 979
- **Permo-Triassic collision, subduction-zone metamorphism, and tectonic exhumation along the east Asian continental margin** *ANNUAL REVIEW OF EARTH AND PLANETARY SCIENCES*
  Ernst, W. G., Tsujimori, T., Zhang, R., Liou, J. G.
  2007; 35: 73-110
- **Plant species distributions under present conditions and forecasted for warmer climates in an arid mountain range** *EARTH INTERACTIONS*
  Van de Ven, C. M., Weiss, S. B., Ernst, W. G.
  2007; 11
- **Preservation/exhumation of ultrahigh-pres sure subduction complexes** *LITHOS*
  Ernst, W. G.
  2006; 92 (3-4): 321-335
- **Presentation of the Mineralogical Society of America Dana Medal for 2005 to William D. Carlson** *AMERICAN MINERALOGIST*
  Ernst, W. G.
  2006; 91 (5-6): 976-976
- **Earth materials and human health** *INTERNATIONAL GEOLOGY REVIEW*
  Ernst, W. G.
  2006; 48 (3): 191-208

- **Triassic paragonite- and garnet-bearing epidote-amphibolite from the Hida Mountains, Japan** *GONDWANA RESEARCH*
  Tsujimori, T., Liou, J. G., Ernst, W. G., Itaya, T.
  2006; 9 (1-2): 167-175
- **Preservation/exhumation of ultrahigh-pressure subduction complexes** *Lithosphere*
  Ernst, W. G.
  2006; 92: 321-335
- **Earth and Mind: How Geologists Think and Learn about the Earth**
  Ernst, W. G.
  Geol. Soc. Amer. Special Paper No. 413.2006: 13–28
- **Presentation of the Mineralogic Society of America Dana Medal for 2005 to William D. Carlson** *American Mineralogist*
  Ernst, W. G.
  2006; 91: 976
- **Geologic Studies in the Klamath Mountains Province, California and Oregon: A volume in Honor of William P. Irwin**
  Scherer, H. H., Snow, C. A., Ernst, W. G.
  Geol. Soc. Amer. Special Paper No. 410, 505p.2006
- **Triassic paragonite- and garnet-bearing epidote-amphibolite from the Hida Mountains, Japan** *Gondwana Research*
  Tsujimori, T., Liou, J. G. Ernst, G., W., Itaya, T.
  2006; 9: 1676-175
- **Konrad B. Krauskopf - 30 November 1910 - 4 May 2003 - Biographical memoirs** *PROCEEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY*
  Ernst, W. G.
  2005; 149 (3): 421-425
- **Aluminous xenoliths in Miocene andesite, Central California Coast Ranges: Magma-crust interaction in a subduction-transform transitional setting** *INTERNATIONAL GEOLOGY REVIEW*
  Metzger, E. P., Ernst, W. G., Sorg, D.
  2005; 47 (6): 573-590
- **Alpine and Pacific styles of Phanerozoic mountain building: subduction-zone petrogenesis of continental crust** *TERRA NOVA*
  Ernst, W. G.
  2005; 17 (2): 165-188
- **Contact metamorphism of the White Mountain Peak metavolcanic complex, eastern California** *AMERICAN MINERALOGIST*
  Ernst, W. G.
  2005; 90 (1): 1-12
- **Net dextral slip, Neogene San Gregorio-Hosgri fault zone, coastal California: Geologic evidence and implications** *Geological Society of America Special Paper 391*
  Dickinson, W. R., Ducea, M., Rosenberg, L. I., Greene, H. G., Graham, S. A., Clark, J. C., Weber, G. E., Kidder, S., Ernst, W. G., Brabb, E. E.
  2005; 391: 43
- **Regional crustal thickness and precipitation in young mountain chains** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Ernst, W. G.
  2004; 101 (42): 14998-15001
- **Vitrinite alteration rate as a function of temperature, time, starting material, aqueous fluid pressure and oxygen fugacity - Laboratory corroboration of prior work** *Annual Meeting of the Geological-Society-of-America*
  Ernst, W. G., Mahlmann, R. F.
  ELSEVIER SCIENCE BV.2004: 341–57
- **Geochemical Investigations in Earth and Space Science: Geochem. Soc. Special Pub. No. 9**
  Ernst, W. G., Ferreiro Mählmann, R.
  2004: 341–357

- **Relationships among vegetation, climatic zonation, soil, and bedrock in the central White-Inyo Range, eastern California: A ground-based and remote-sensing study** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Ernst, W. G., van de Ven, C. M., Lyon, R. J.
  2003; 115 (12): 1583-1597
- **Low-temperature microdiamond aggregates in the Maksyutov Metamorphic Complex, South Ural Mountains, Russia** *AMERICAN MINERALOGIST*
  Bostick, B. C., Jones, R. E., Ernst, W. G., Chen, C., Leech, M. L., Beane, R. J.
  2003; 88 (11-12): 1709-1717
- **Konrad Bates Krauskopf - Obituary** *PHYSICS TODAY*
  Ernst, W. G.
  2003; 56 (11): 90-91
- **Ultrarapid exhumation of ultrahigh-pressure diamond-bearing metasedimentary rocks of the Kokchetav Massif, Kazakhstan?** *6th International Eclogite Conference on Eclogite and Related High and Ultrahigh Pressure Metamorphic Rocks*
  Hacker, B. R., Calvert, A., Zhang, R. Y., Ernst, W. G., Liou, J. G.
  ELSEVIER SCIENCE BV.2003: 61–75
- **Thermal relaxation of a magmatic arc complex, mount barcroft area, eastern california: Ar-40/Ar-39 geochronologic study of horublende and biotite from igneous and metamorphic rocks** *INTERNATIONAL GEOLOGY REVIEW*
  Hourigan, J., Ernst, W. G., Inan, E. E.
  2003; 45 (10): 863-885
- **Low delta O-18 eclogites from the Kokchetav massif, northern Kazakhstan** *4th International Eclogite Conference*
  Masago, H., Rumble, D., Ernst, W. G., Parkinson, C. D., Maruyama, S.
  WILEY-BLACKWELL PUBLISHING, INC.2003: 579–87
- **Petrochemical and tectonic processes of UHP/HP terranes II: Preface** *JOURNAL OF METAMORPHIC GEOLOGY*
  Liou, J. G., Ernst, W. G., Ogasawara, Y.
  2003; 21 (6): 513-514
- **Petrochemistry of granitic rocks in the Mount Barcroft area - Implications for arc evolution, central White Mountains, easternmost California** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Ernst, W. G., Coleman, D. S., van de Ven, C. M.
  2003; 115 (4): 499-512
- **Oxygen isotopic study of late mesozoic cooling of the mount Barcroft Area, central White Mountains, Eastern California** *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*
  Ernst, W. G., Rumble, D.
  2003; 144 (6): 639-651
- **Granulysin crystal structure and a structure-derived lytic mechanism** *JOURNAL OF MOLECULAR BIOLOGY*
  Anderson, D. H., Sawaya, M. R., Cascio, D., Ernst, W., Modlin, R., Krensky, A., Eisenberg, D.
  2003; 325 (2): 355-365
- **Report on Pardee Symposium K4, 2002 GSA Annual Meeting, Denver, Colorado, October 28, 2002** *GSA Today*
  Ernst, W. G., Heiken, G., Landon, S. M., Leahy, P. P., Moores, E.
  2003; 13: 27-28
- **Thermal relaxation of a magmatic arc complex, Mount Barcroft area, eastern California: 40Ar/39Ar geochronologic study of hornblende and biotite from igneous and metamorphic rocks** *International Geology Review*
  Hourigan, J., Ernst, W. G., Inan, E. E.
  2003; 45: 863-885
- **Oxygen isotopic study of Late Mesozoic cooling of the Mount Barcroft area, central White Mountains, eastern California** *Contributions to Mineralogy and Petrology*
  Ernst, W. G., Rumble, D. III
  2003; 144: 637-651

- **Ultra-rapid exhumation of ultrahigh pressure diamond-bearing metasedimentary and meta-igneous rocks of the Kokchetav Massif** *Lithosphere*
  Hacker, B. R., Calvert, A. T., Zhang, R. Y., Ernst, W. G., Liou, J. G.
  2003; 70: 61-75
- **Relationships among vegetation, geology, and climatic zones in the central White-Inyo Range, eastern California** *Geological Society of America Bulletin*
  Ernst, W. G., de Ven, V., M., C., Lyon, R. J. P.
  2003; 115: 1583-1597
- **Geological Society of America Special Paper No. 373**
  Ernst, W. G.
  Soc. Amer. Special Paper No. 373. 504p.2003: 365–384
- **Low d18O eclogites from the Kokchetav massif, northern Kazakhstan** *Journal of Metamorphic Geology*
  Masago, H., Rumble, D., Iii, E., G., W., Parkinson, C. D., Maruyama, S.
  2003; 21: 579-587
- **Petrochemistry of granitic rocks in the Mount Barcroft area--implications for arc evolution, central White Mountains, easternmost California** *Geological Society of America Bulletin*
  Ernst, W. G., Coleman, D. S., Van de Ven, C. M.
  2003; 115: 499-512
- **Global equity and sustainable earth resource consumption requires super-efficient extraction-conservation-recycling and ubiquitous, inexpensive energy** *INTERNATIONAL GEOLOGY REVIEW*
  Ernst, W. G.
  2002; 44 (12): 1072-1091
- **Petrochemical and tectonic processes of UHP/HP terranes I: Preface** *INTERNATIONAL GEOLOGY REVIEW*
  Liou, J. G., Ernst, W. G., Ogasawara, Y.
  2002; 44 (9): 765-769
- **Paragenesis and thermobarometry of Ca-amphiboles in the Barcroft granodioritic pluton, central White Mountains, eastern California** *AMERICAN MINERALOGIST*
  Ernst, W. G.
  2002; 87 (4): 478-490
- **Subduction, ultrahigh-pressure metamorphism, and regurgitation of buoyant crustal slices - implications for arcs and continental growth** *Workshop on Processes and Consequences of Deep Subduction*
  Ernst, W. G.
  ELSEVIER SCIENCE BV.2001: 253–75
- **The increasing severity of circumpacific natural disasters** *Annual Meeting of the American-Association-for-the-Advancement-of-Science*
  Ernst, W. G.
  BELLWETHER PUBL LTD.2001: 380–90
- **Chemical fine structure of Franciscan jadeitic pyroxene from Ward Creek, Cazadero area, California** *AMERICAN MINERALOGIST*
  Banno, S., Shibakusa, H., Enami, M., Wang, C. L., Ernst, W. G.
  2000; 85 (11-12): 1795-1798
- **Petrotectonic evolution of the high- to ultrahigh-pressure Maksyutov Complex, Karayanova area, south Ural Mountains: structural and oxygen isotope constraints** *International Workshop on UHP Metamorphism and Exhumation*
  Leech, M. L., Ernst, W. G.
  ELSEVIER SCIENCE BV.2000: 235–52
- **Continental collision, mountain building, and diamonds in the rough (Geology, tectonics)** *PROCEEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY*
  Ernst, W. G.
  2000; 144 (1): 1-32

- **Petrological characterization and tectonic significance of retrogressed garnet peridotites, Raobazhai area, North Dabie Complex, east-central China** *AGU Special Session on UHP Metamorphism and Geodynamics in Collision-Type Orogenic Belts*
  Tsai, C. H., Liou, J. G., Ernst, W. G.
  WILEY-BLACKWELL PUBLISHING, INC.2000: 181–92
- **H2O and ultrahigh-pressure subsolidus phase relations for mafic and ultramafic systems** *INTERNATIONAL GEOLOGY REVIEW*
  Ernst, W. G.
  1999; 41 (10): 886-894
- **Hornblende, the continent maker-Evolution of H2O during circum-Pacific subduction versus continental collision** *GEOLOGY*
  Ernst, W. G.
  1999; 27 (8): 675-678
- **Mesozoic petrotectonic development of the Sawyers Bar suprasubduction-zone arc, central Klamath Mountains, northern California** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Ernst, W. G.
  1999; 111 (8): 1217-1232
- **Island arc-related, back-arc basinal, and oceanic-island components of the Bela Ophiolite-Melange complex, Pakistan** *INTERNATIONAL GEOLOGY REVIEW*
  Ahmed, Z., Ernst, W. G.
  1999; 41 (8): 739-763
- **Metamorphism, partial preservation, and exhumation of ultrahigh-pressure belts** *ISLAND ARC*
  Ernst, W. G.
  1999; 8 (2): 125-153
- **Overview of UHP metamorphism and tectonics in well-studied collisional orogens** *INTERNATIONAL GEOLOGY REVIEW*
  Ernst, W. G., Liou, J. G.
  1999; 41 (6): 477-493
- **Experimental phase-equilibrium study of Al- and Ti-contents of calcic amphibole in MORB - A semiquantitative thermobarometer** *AMERICAN MINERALOGIST*
  Ernst, W. G., Liu, J.
  1998; 83 (9-10): 952-969
- **Graphite pseudomorphs after diamond? A carbon isotope and spectroscopic study of graphite cuboids from the Maksyutov Complex, south Ural Mountains, Russia** *GEOCHIMICA ET COSMOCHIMICA ACTA*
  Leech, M. L., Ernst, W. G.
  1998; 62 (12): 2143-2154
- **Deformation and metamorphism of the Marble Mountain and Pony Camp areas, Western Triassic and Paleozoic belt, central Klamath Mountains, northwestern California** *INTERNATIONAL GEOLOGY REVIEW*
  Miller, D. E., Ernst, W. G.
  1998; 40 (5): 411-451
- **Ultrahigh-pressure metamorphism and decompressional P-T paths of eclogites and country rocks from Weihai, eastern China: Reply** *ISLAND ARC*
  Zhang, R. Y., Liou, J. G., Ernst, W. G.
  1998; 7 (1-2): 250-252
- **Chemical microstructure of Franciscan jadeite from Pacheco Pass, California** *AMERICAN MINERALOGIST*
  Radvanec, M., Banno, S., Ernst, W. G.
  1998; 83 (3-4): 273-279
- **Mineral parageneses in the Piampaludo eclogitic body, Gruppo di Voltri, Western Ligurian Alps** *5th International Eclogite Conference 1997 (FIEC)*
  Liou, J. G., Zhang, R. Y., Ernst, W. G., Liu, J., McLimans, R.
  STAUBLI VERLAG AG.1998: 317–35

- **Deformation and metamorphism of the Marble Mountain and Pony Camp areas, Western Triassic and Paleozoic belt, central Klamath Mountains, northwestern California** *Symposium on Integrated Earth and Environmental Evolution of the Southwestern United States*
  Miller, D. E., Ernst, W. G.
  BELLWETHER PUBLISHING, LTD.1998: 443–483

- **High-pressure minerals from deeply subducted metamorphic rocks** *Short Course on Ultrahigh-Pressure Mineralogy - Physics and Chemistry of the Earths Deep Interior*
  Liou, J. G., Zhang, R. Y., Ernst, W. G., Rumble, D., Maruyama, S.
  MINERALOGICAL SOC AMER.1998: 33–96

- **Buoyancy-driven, rapid exhumation of ultrahigh-pressure metamorphosed continental crust** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Ernst, W. G., Maruyama, S., Wallis, S.
  1997; 94 (18): 9532-9537

- **Experimental study on the pressure dependence of vitrinite maturation** *GEOCHIMICA ET COSMOCHIMICA ACTA*
  Torre, M. D., Mahlmann, R. F., Ernst, W. G.
  1997; 61 (14): 2921-2928

- **Metamorphic evolution of diamond-bearing and associated rocks from the Kokchetav Massif, northern Kazakhstan** *JOURNAL OF METAMORPHIC GEOLOGY*
  Zhang, R. Y., Liou, J. G., Ernst, W. G., Coleman, R. G., Sobolev, N. V., Shatsky, V. S.
  1997; 15 (4): 479-496

- **Metamorphism of mafic dikes from the central White-Inyo Range, eastern California** *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*
  Ernst, W. G.
  1997; 128 (1): 30-44

- **Tectonics - Seeing a mountain in a grain of garnet** *SCIENCE*
  Liou, J. G., Maruyama, S., Ernst, W. G.
  1997; 276 (5309): 48-49

- **Submarine and superimposed contact metamorphic oxygen isotopic exchange in an oceanic arc, Sawyers Bar area, central Klamath Mountains, California, USA** *GEOCHIMICA ET COSMOCHIMICA ACTA*
  Ernst, W. G., Kolodny, Y.
  1997; 61 (4): 821-834

- **Petrochemical study of regional/contact metamorphism in metaclastic strata of the central White-Inyo Range, eastern California** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Ernst, W. G.
  1996; 108 (12): 1528-1548

- **Stability of hydrous phases in subducting oceanic crust** *EARTH AND PLANETARY SCIENCE LETTERS*
  Liu, J., Bohlen, S. R., Ernst, W. G.
  1996; 143 (1-4): 161-171

- **Study of the reed dolomite aided by remotely sensed imagery, Central White-Inyo Range, easternmost California** *AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS*
  Ernst, W. G., Paylor, E. D.
  1996; 80 (7): 1008-1026

- **TIMESCALES OF OROGENY - JURASSIC CONSTRUCTION OF THE KLAMATH MOUNTAINS** *TECTONICS*
  Hacker, B. R., Donato, M. M., Barnes, C. G., McWilliams, M. O., Ernst, W. G.
  1995; 14 (3): 677-703

- **CONTRASTING PLATE-TECTONIC STYLES OF THE QINLING-DABIE-SULU AND FRANCISCAN METAMORPHIC BELTS** *GEOLOGY*
  Ernst, W. G., Liou, J. G.
  1995; 23 (4): 353-356

- **PRESENTATION OF THE ROEBLING MEDAL OF THE MINERALOGICAL-SOCIETY-OF-AMERICA FOR 1992 TO YODER,HATTEN,S.** *AMERICAN MINERALOGIST*

Ernst, W. G.
1993; 78 (7-8): 850-850

- **HIGH-PRESSURE LOW-TEMPERATURE METAMORPHISM IN NORTHERN HUBEI PROVINCE, CENTRAL CHINA** *JOURNAL OF METAMORPHIC GEOLOGY*
  Zhou, G., Liu, Y. J., Eide, E. A., Liou, J. G., Ernst, W. G.
  1993; 11 (4): 561-574
- **METAMORPHISM OF FRANCISCAN TECTONOSTRATIGRAPHIC ASSEMBLAGE, PACHECO PASS AREA, EAST-CENTRAL DIABLO RANGE, CALIFORNIA COAST RANGES** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Ernst, W. G.
  1993; 105 (5): 618-636
- **GENESIS AND EVOLUTION OF A PERMIAN-JURASSIC MAGMATIC ARC ACCRETIONARY WEDGE, AND REEVALUATION OF TERRANES IN THE CENTRAL KLAMATH MOUNTAINS** *TECTONICS*
  Hacker, B. R., Ernst, W. G., McWilliams, M. O.
  1993; 12 (2): 387-409
- **CHEMICALLY DISTINCT MAFIC DIKE SILL SEQUENCES OF CONTRASTING AGE RANGES, SAWYERS BAR AREA, CENTRAL KLAMATH MOUNTAINS, NORTHERN CALIFORNIA** *JOURNAL OF PETROLOGY*
  Ernst, W. G.
  1993; 34 (1): 63-75
- **EVOLUTION IN THE UNDERSTANDING OF METAMORPHISM OF BASALTIC ROCKS AND THEIR TECTONIC SETTINGS - A PERSONAL PERSPECTIVE** *NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS*
  Ernst, W. G.
  1993; 36 (3): 269-280
- **METAMORPHISM, GEOCHEMISTRY AND ORIGIN OF MAGNESIAN VOLCANIC-ROCKS, KLAMATH MOUNTAINS, CALIFORNIA** *JOURNAL OF METAMORPHIC GEOLOGY*
  Hacker, B. R., Ernst, W. G., BARTON, M. D.
  1992; 10 (1): 55-69
- **PETROLOGICAL SETTING AND INFERRED PLATE TECTONIC HISTORY OF THE SAWYERS BAR TERRANE, CENTRAL KLAMATH MOUNTAINS, NORTHERN CALIFORNIA** *CANADIAN MINERALOGIST*
  Ernst, W. G.
  1991; 29: 1051-1068
- **AN EXPERIMENTAL-DETERMINATION OF CALCIC AMPHIBOLE SOLID-SOLUTION ALONG THE JOIN TREMOLITE-TSCHERMAKITE** *AMERICAN MINERALOGIST*
  Cho, M. S., Ernst, W. G.
  1991; 76 (5-6): 985-1001
- **IGNEOUS PETROGENESIS OF MAGNESIAN METAVOLCANIC ROCKS FROM THE CENTRAL KLAMATH MOUNTAINS, NORTHERN CALIFORNIA** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Ernst, W. G., Hacker, B. R., BARTON, M. D., Sen, G.
  1991; 103 (1): 56-72
- **LASER SPECTROSCOPY OF CROSSED MOLECULAR-BEAMS - THE DISSOCIATION-ENERGY OF BAL FROM ENERGY-BALANCE MEASUREMENTS** *JOURNAL OF CHEMICAL PHYSICS*
  VACCARO, P. H., Zhao, D., Tsekouras, A. A., Leach, C. A., Ernst, W. E., Zare, R. N.
  1990; 93 (12): 8544-8556
- **METAMORPHISM IN ALLOCHTHONOUS AND AUTOCHTHONOUS TERRANES OF THE WESTERN UNITED-STATES** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*
  Ernst, W. G.
  1990; 331 (1620): 549-570
- **LATE ARCHEAN SM-ND ISOCHRON AGE FOR MAFIC-ULTRAMAFIC SUPRACRUSTAL AMPHIBOLITES FROM THE NORTHEASTERN SINO-KOREAN CRATON, CHINA** *PRECAMBRIAN RESEARCH*
  JAHN, B. M., Ernst, W. G.

1990; 46 (4): 295-306

- **STARK-EFFECT STUDIES IN XENON AUTO-IONIZING RYDBERG STATES USING A TUNABLE EXTREME-ULTRAVIOLET LASER SOURCE** *PHYSICAL REVIEW A*
  Ernst, W. E., Softley, T. P., Zare, R. N.
  1988; 37 (11): 4172-4183
- **A GENERAL-PURPOSE XUV LASER SPECTROMETER - SOME APPLICATIONS TO N-2, O-2 AND CO2** *CHEMICAL PHYSICS*
  Softley, T. P., Ernst, W. E., TASHIRO, L. M., Zare, R. N.
  1987; 116 (3): 299-309
- **CRUSTAL ACCRETION AND METAMORPHISM IN TAIWAN, A POSTPALEOZOIC MOBILE BELT** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*
  Ernst, W. G., JAHN, B. M.
  1987; 321 (1557): 129-161
- **HYPERFINE-STRUCTURE OF THE BAL X 2-SIGMA+ AND C-PI-STATES** *JOURNAL OF CHEMICAL PHYSICS*
  Ernst, W. E., Kandler, J., Noda, C., MCKILLOP, J. S., Zare, R. N.
  1986; 85 (7): 3735-3743
- **PALEOGEOGRAPHIC ORIGINS OF THE MIOCENE EAST TAIWAN OPHIOLITE** *AMERICAN JOURNAL OF SCIENCE*
  Suppe, J., Liou, J. G., Ernst, W. G.
  1981; 281 (3): 228-246
- **OCEANIC RIDGE METAMORPHISM OF THE EAST TAIWAN OPHIOLITE** *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*
  Liou, J. G., Ernst, W. G.
  1979; 68 (3): 335-348
- **Subduction-zone metamorphism, calc-alkaline magmatism, and convergent-margin crustal evolution** *Gondwana Research*
  Ernst, W. G.
  Go; 18: 8-16