

REFERENCES

- Arehart, G. B., 1996, Characteristics and origin of sedimentary rock-hosted gold deposits: a review: *Ore Geology Reviews*, v. 11, p. 383–403.
- Arehart, G.B., Foland, K.A., Naeser, C.W., and Kesler, S.E., 1993a, $^{40}\text{Ar}/^{39}\text{Ar}$, K/Ar, and fission track geochronology of sedimentary rock-hosted disseminated gold deposits at Post-Betze, Carlin trend, northeastern Nevada: *Economic Geology*, v. 88, p. 622–646.
- Arehart, G.B., Chryssoulis, S.L., Kesler, S.E., 1993b, Gold and arsenic in iron sulfides from sediment hosted disseminated gold deposits: Implications for depositional processes: *Economic Geology*, v. 88, no. 1, p. 171–185.
- Arehart, G.B., Eldridge, C.S., Chryssoulis, S.L., Kesler, S.E., 1993c, Ion microprobe determination of sulfur isotope variations in iron sulfides from the Post/Betze sediment hosted disseminated gold deposit, Nevada, USA: *Geochimica Et Cosmochimica Acta*, v. 57, no. 7, p. 1505–1519.
- Armstrong, A.K., Theodore, T.G., Kotlyar, B.B., Lauha, E.G., Griffin, G.L., Lorge, D.L., and Abbott, E.W., 1997, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., Carlin-type Gold Deposits Field Conference, *Economic Geology Guidebook Series*, vol. 28, p. 53–74.
- Ashley, R.P., Cunningham, C.G., Bostick, N.H., Dean, W.E., Chou, I.M., 1991, Geology and geochemistry of three sedimentary-rock-hosted disseminated gold deposits in Guizhou Province, People's Republic of China, *in* Petruk, William, Vassiliou, A.H., Hausen, D. M, eds., *Applied mineralogy in exploration: Canadian Center Mineral and Energy Technology*, Ottawa, Ontario, Canada: *Ore Geology Reviews*, v. 6, nos. 2–3, p. 133–151.
- Bache, J.J., 1987, *World Gold Deposits, A Geological Classification*: Elsevier, New York, 178 p.
- Bagby, W.C., 1989, Patterns of gold mineralization in Nevada and Utah: U.S. Geological Survey Bulletin 1857–B, p. B11–B21.
- Bagby, W.C., and Berger, B.R., 1985, Geological characteristics of sedimentary rock-hosted, disseminated precious-metal deposits in the western United States: *Reviews in Economic Geology*, v. 2, p. 169–202.
- Bagby, W.C., and Cline, J.S., 1991, Constraints on the pressure of formation of the Getchell gold deposit, Humboldt County Nevada, as interpreted from secondary fluid-inclusion data, *in* Raines, G.L., Lisle, R.W., Schafer, R.W., and Wilkinson, W.H., eds., *Geology and Ore Deposits of the Great Basin, Symposium Proceedings*: Reno, Nevada, Geological Society of Nevada, v. 2, p. 793–804.
- Bakken, B.M., 1990a, Gold mineralization, wall-rock alteration, and the geochemical evolution of the hydrothermal system in the main ore body, Carlin Mine, Nevada: (unpublished) Ph.D. Thesis, Stanford University, 256 p.
- 1990b, Gold mineralization, wall-rock alteration, and the geochemical evolution of the hydrothermal system in the main ore body, Carlin Mine, Nevada, *in* Richard, E., Schafer, R.W., and Wilkinson, W.H., eds., *Geology and ore deposits of the Great Basin Symposium Proceedings*: Geological Society of Nevada, Reno, Nevada, p. 233–234.
- Bakken, B.M., Einaudi, M.T., 1986, Spatial and temporal relations between wall rock alteration and gold mineralization, main pit, Carlin Gold Mine, Nevada, USA, *in* Macdonald, A.J., ed., *Gold '86: An International Symposium on the Geology of Gold Deposits: Proceedings*, Konsult International, Willowdale, Ontario, Canada, p. 388–403.
- Bakken, B.M., Hochella Jr., M.F., Marshall, A.F, Turner, A.M., 1989, High-resolution microscopy of gold in unoxidized ore from the Carlin Mine, Nevada: *Economic Geology*, v. 84, no. 1, p. 171–179.
- Ballantyne, J.M., 1988, Shallow hydrocarbon accumulations, magmatic intrusions,

- and the genesis of Carlin-type, disseminated gold deposits, *in* Brawner, C.O., ed., *Gold Mining 88: British Columbia Mining Department, Vancouver, Canada, 2*, p. 48–57.
- Berger, B.R., 1986, Descriptive model of carbonate-hosted Au–Ag, *in* Cox, D.P., and Singer, D.A., eds., *Mineral deposit models: U.S. Geological Survey Bulletin 1693*, p. 175.
- Berger, B.R., and Bagby, W.C., 1991, The geology and origin of Carlin type deposits, *in* Foster, R.P., ed., *Gold exploration and metallogeny: London, Blackie and Sons*, p. 210–248.
- Berger, B.R., and Bonham, H.F., 1990, Epithermal gold-silver deposits in the Western United States: Time-space products of evolving plutonic, volcanic and tectonic environments: *Journal of Geochemical Exploration*, v. 36, p. 103–142.
- Boyle, R.W., 1979, *The Geochemistry of Gold and its Deposits: Geological Survey of Canada Bulletin 280*, 584p.
- 1987, *Gold, History and Genesis of Deposits: Van Nostrand, New York*, 676 p.
- Bloomstein, E., Braginton, B., Owen, R., Parrat, R., Raabe, K., and Thompson, W., 1993, Geology and geochemistry of the Lone Tree gold deposit, Humboldt County, Nevada: *Society for Mining, Metallurgy and Exploration, Preprint 93-205*, 23 p.
- Burchfield, B.C. and Roydon, L.H., 1989, Antler Orogeny: A Mediterranean-type Orogeny: *Geology*, v. 19, p. 66–69.
- Cai, Guixian, 1991, Geological features, metallogenic regularity and exploration guide of microgranular disseminated gold deposits in southeastern Huabei (in Chinese): *Geology and Prospecting*, v. 27 no. 11, p. 7–11.
- Chen, Yuanming, 1987, The discovery of the fine-grained disseminated gold deposit in southwestern Guizhou by means of geochemical methods (in Chinese): *Contribution to the Exploration of Geophysics and Geochemistry*, v. 5. p. 39–44.
- Cheng, Junhua, 1994, Geological characteristic and metallogeny condition of Getang gold deposit (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, (eds.), *Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing*, p. 116–132.
- Cheng, Qiuming; Hattori, Keiko, Fan, Jizhang and Wang, Shichen, 1994, Exploration history and geology of disseminated gold deposit at Maoling in Proterozoic sedimentary rocks in North China Platform: *Journal of Geochemical Exploration*, v. 51. no. 1, p. 93–108.
- Christensen, O. D., 1993, Carlin trend geologic overview, *in* Christensen, O.D., ed., *Gold Deposits of the Carlin Trend, Nevada: Society of Economic Geologists Guidebook Series*, v. 18, p. 3–26.
- 1996, Carlin trend geologic overview, *in* Green, S.M., and Strusacker, E., eds., *Geology and ore deposits of the American Cordillera Road Trip B, Structural Geology of the Carlin Trend: Geological Society of Nevada Field Trip Guidebook Compendium, 1995, Reno/Sparks, NV*, p. 147–156.
- Cline, J.S., Hofstra, A.H., Rye, R.O., and Landis, G.P., 1996, Stable isotope and fluid inclusion evidence for a deep source fluid at the Getchell, Carlin-type, gold deposit, Nevada [Extended abs.]: *Madison, Wisconsin, PACROFI VI, Program and Abstracts*, p. 33–35.
- Cox, D.P, 1992, Descriptive and grade and tonnage models of distal-disseminated Ag–Au, *in* Bliss, J.D., ed., *Developments in deposit modeling: U.S. Geological Survey Bulletin 2004*, p. 19–22.
- Cox, D.P. and Singer, D.A., 1992, Grade and tonnage model of distal disseminated Ag–Au, *in* Bliss, J.D., ed., *Developments in mineral deposit modeling: U.S. Geological Survey Bulletin 2004*, p. 20–22.
- Cunningham, C.G., 1988, The relationship between some disseminated gold deposits, the western edge of the Precambrian craton, and paleothermal anomalies in Nevada, *in* Schafer, R.W., Cooper, J.J. and Vikre, P.G., eds., *Bulk Mineable Precious Metal Deposits of the Western United States, Symposium Proceedings: Geological*

- Society of Nevada, Reno/Sparks, p. 35-48
- Cunningham, C.G., Ashley, R.P., Chou, I., Ming, Huang, Zushu, Wan, Chaoyuan, Li, Wenkang, 1988, Newly discovered sedimentary rock-hosted disseminated gold deposits in the People's Republic of China: *Economic Geology*, v. 83, no. 7, p. 1462-1469.
- Dean G.H., Rick, C.T. and Rota, J.C., 1990, Geology of the Gold Quarry mine, *in* Buffa, R.H., and Coyner, A.R., eds., *Geology and Ore Deposits of the Great Basin - Field Trip Guidebook Compendium: Great Basin Symposium, 1990*, Geological Society of Nevada, Reno, Nevada, p. 829-868.
- Dean W.E., Bostick N.H., Bartel A.J., Brandt E.L., Daws T.A., Doughten, M, Gent, C.A., Jaunarajs, S.R., Libby, B., Malcolm, M.J., Robb, E.C., Taggart, J.E., Threlkeld, C.N., Vuletich, A.K., Cunningham, C.G., Ashley, R.P. and Chou, I. Ming, 1988, Data on the geochemistry and thermal maturation of sedimentary-rock hosted, disseminated gold deposits and associated rocks, southwestern Guizhou Province, People's Republic of China: U. S. Geological Survey, Open-File Report X-88, 22 p.
- Deng, Xueneng, 1993, Ore-controlling factors and exploration prospect of microgranular disseminated gold deposits in Yunnan-Guizhou-Guangxi: *Geology-and-Prospecting*, v. 29. no. 6, p. 13-18.
- Doeblich, J.L., and Theodore, T.G., 1995, Geology and ore deposits of the Battle Mountain mining district, Nevada: an overview [abs.], *in* *Geology and Ore Deposits of the American Cordillera, A symposium: Reno, Nevada, Nevada Geological Society, Program with Abstracts*, p. 24.
- 1996, Geologic history of the Battle Mountain Mining District, Nevada, and regional controls on the distribution of mineral systems, *in* Coyner, A.R., and Fahey, P.L., eds., *Geology and Ore deposits of the American Cordillera: Reno, Nevada, Geological Society of Nevada, Symposium Proceedings* Reno/Sparks, Nevada, April, 1995, p. 453-483.
- Doeblich, J.L., Wotruba, P.R., Theodore, T.G., McGibbon, D.H., and Felder, R.P., 1995, Field guide for geology and ore deposits of the Battle Mountain Mining District, Humboldt and Lander Counties, Nevada, Field Trip H: Reno, Nevada, Geological Society of Nevada, *Geology and Ore Deposits of the American Cordillera, A Symposium*, 92 p.
- Du, Junen and Ma, Chaokui, 1994, Geological characteristics of Changkeng disseminated gold deposit (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., *Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing*, p. 343-355.
- Evans, J.G., and Theodore, T.G., 1978, Deformation of the Roberts Mountains allochthon in north-central Nevada: U.S. Geological Survey Professional Paper 1060, 18 p.
- Fan, Shuecheng and Jin, Qin Hai, 1994, The model of Shuangwang gold deposit, Shannxi province (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, (eds.), *Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing*, p. 254-285.
- Ferdock, G.C., Peters, S. G., Leonardson, R.W., and Larson, L.T., 1996, Alteration geochemistry at the Goldstrike Mine, Eureka County, Nevada [abs.]: Geological Society of America, *Abstracts with Programs, 1996 Annual Meeting*, p. A-94.
- Ferdock, G.C., Castor, S.B., Leonardson, R.W., and Collins, T., 1997, Mineralogy and paragenesis of ore stage mineralization in the Betze gold deposit, Goldstrike Mine, Eureka County, Nevada, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., *Carlin-type Gold Deposits Field Conference, Economic Geology Guidebook Series, vol. 28*, p. 75-86.
- Fleet, M.E., and Mumin, Hamid, 1997, Gold-bearing arsenian pyrite and marcasite and arsenopyrite from Carlin Trend gold deposits and laboratory studies:

- American Mineralogist, v. 82, p. 182–187.
- Folger, H.W., Snee, L.W., Mehnert, H.H., Hofstra, A.H., and Dahl, A.R., 1996, Significance of K-Ar and $^{40}\text{Ar}/^{39}\text{Ar}$ dates from mica in Carlin-type gold deposits: Evidence from the Jerritt Canyon District, Nevada in Coyner, A.R., and Fahey, P.L., eds., *Geology and Ore Deposits of the American Cordillera: Geological Society of Nevada Symposium Proceedings, Reno/Sparks, Nevada, April 1995*, p. 41–60.
- Gao, Zhibin, Wang, Xiaochun and Rong, Chunmian, 1996, Ore-forming model for micro-disseminated type of gold deposits in China, *in* Liu, Yikang, Ma, Wennian, Wang, Yuming, Chen, Jing, Shen, Mingxing, and Miao, Laicheng, eds., *Geology and Mineral Resources Proceedings of Ministry of Metallurgical Industry*, p. 104–108
- Geng, Wenhui, 1985, Gold deposits of Carlin type; their essential minerals and paragenetic conditions (in Chinese): *Geology and Prospecting*, v. 21. no. 10, p. 16–21.
- Graney, J.R., Kesler, S.E., Jones, H.D., 1991, Application of gas analysis of jasperoid inclusion fluids to exploration for micron gold deposits, *in* Kesler, S.E., ed., *Fluid inclusion gas analyses in mineral exploration: Journal of Geochemical Exploration*, v. 42, no. 1, p. 91–106.
- Grauch, J.S., 1986, Regional aeromagnetic and gravity data of northern Nevada: Relation to tectonics and disseminated gold deposits: *Terra Cognita*, v. 6, no. 3, p. 496–497.
- Grauch, J.S., Jachens, R.C., and Blakely, R.J., 1995, Evidence for a basement feature related to the Cortez disseminated gold trend and implications for regional exploration in Nevada: *Economic Geology*, v. 90, p. 203–207.
- Grauch, J.S., and Bankey, Viki, 1991, Preliminary results of aeromagnetic studies of the Getchell disseminated gold deposit trend, Osgood Mountains, North central Nevada, *in* Raines, G.L., Lisle, R.W., Schafer, R.W., and Wilkinson, W. H., eds., *Geology and Ore Deposits of the Great Basin: Reno, Geological Society of Nevada, Symposium Proceedings, v. 2*, p. 781–791.
- Groff, J., 1996, ^{40}Ar - ^{39}Ar geochronology of gold mineralization and origin of auriferous fluids for the Getchell and Twin Creeks mines, Humboldt County, Nevada: Ph.D. Thesis, New Mexico Institute of Mining and Technology, Socorro, New Mexico, 291p.
- Guo, Zhenchun, 1994, The exploration experience and geology of Zimudong gold deposit, Guizhou Province (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, (eds.), *Chinese Carlin-type gold deposits: University of Nanjing Press, Nanjing*, p. 79–99.
- Hall, C.M., Simon, Grigore, and Kesler, S.E., 1997, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., *Carlin-type Gold Deposits Field Conference, Economic Geology Guidebook Series, vol. 28*, p. 151–155.
- Hausen, D.M., and Kerr, P.F., 1968, Fine gold occurrence at Carlin, Nevada, *in* Ridge, J.D., ed., *Ore Deposits of the United States, 1933-1967: American Institute of Mining and Metallurgical and Petroleum Engineers, New York* New York, p. 909–940.
- Hausen, D., Ekborg, C., and Kula, F., 1982, Geochemical and XRD-computer logging for lithologic ore type classification of Carlin-type gold ores, *in* Hagni, R.D., ed., *Process Mineralogy II, Applications in Metallurgy, Ceramics, and Geology: Warrendale, Pennsylvania, Metallurgical Society of American Institute of Mining, Metallurgical, and Petroleum Engineers*, p. 421–450.
- He, Mingyou, 1996, Physicochemical conditions of differential mineralization of Au and As in gold deposits, southwest Guizhou Province, China: *Chinese Journal of Geochemistry*, v. 15 no. 2, p. 189–192.
- He, Lixian, Zen, Ruelan and Lin, Liqing, 1993, *Geology of Guizhou Gold Deposits, Geological Publishing House, Guiyan*.

- Henry, C.D., and Boden, D.R., 1997, Eocene magmatism of the Tuscarora volcanic field, Elko County, Nevada, and implications for Carlin-type mineralization, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., Carlin-type Gold Deposits Field Conference: Economic Geology Guidebook Series, vol. 28, p. 193-202.
- Hill, R.H., Adrian, B.M., Bagby, W.C., Bailey, E.A., Goldfarb, R.J., and Pickthorn, W.J., 1986, Geochemical data for rock samples collected from selected sedimentary rock-hosted disseminated precious metal deposits in Nevada: U.S. Geological Survey Open-File Report 86-107, 30 p.
- Hitchborn, A.D., Arbonies, D.G., Peters, S.G., Connors, K.A., Noble, D.C., Larson, L.T., Beebe, J.S., and McKee, E.H. 1996, Geology and gold deposits of the Bald Mountain Mining District, White Pine County, Nevada, *in* Coyner, A.R., and Fahey, P.L., eds., Geology and Ore Deposits of the American Cordillera: Geological Society of Nevada Symposium Proceedings, Reno/Sparks, Nevada, April 1995, p. 505-546.
- Hofstra, A.H., Landis, G.P., Leventhal, J.S., Northrup, H.R., Rye, R.O., Doe, T.C., and Dahl, A.R., 1990, Genesis of sedimentary rock-hosted disseminated gold deposits by fluid mixing and sulfide of iron in the host rocks; chemical reaction path modeling of ore depositional processes at Jerritt Canyon, Nevada [abs.]: Program with Abstracts, Geological Society of Nevada-U.S. Geological Survey Symposium, Reno, Nevada, April, 1990, p. 55.
- Hofstra, A.H., Daly, W.E., Birak, D.J., and Doe, T.C., 1991a, Geologic framework and genesis of Carlin-type gold deposits in the Jerritt Canyon District, Nevada, USA, *in* Ladeira, E.A., ed., Brazil gold '91; the economics, geology, geochemistry, and genesis of gold deposits: Rotterdam, Netherlands, A.A. Balkema, Proceedings, p. 77-87.
- Hofstra, A.H., Leventhal, J.S., Northrup, H.R., Landis, G.P., Rye, R.O., Birak, D.J., and Dahl, A.R., 1991b, Genesis of sedimentary rock-hosted disseminated-gold deposits by fluid mixing and sulfidation; chemical-reaction-path modeling of ore-depositional processes represented in the Jerritt Canyon District, Nevada: *Geology*, v. 19, no. 1, p. 36-40.
- Hofstra, A.H., 1994, Geology and genesis of the Carlin-type gold deposits in the Jerritt Canyon district, Nevada: Ph.D., Dissertation, University of Colorado, Boulder, 719p.
- 1995, Timing and duration of Carlin-type gold mineralization in Nevada and Utah—relation to back-arc extension and magmatism: Geological Society of America Abstracts with programs, v. 27, no. 6, A-329.
- 1997, Isotopic composition of sulfur in Carlin-type gold deposits: implications for genetic models, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., Carlin-type Gold Deposits Field Conference: Economic Geology Guidebook Series, vol. 28, p. 119-131.
- Hou, Zonglin and Gou, Guangyu, 1996, The metallogenic model of hot spring type gold deposit, *in* Liu, Yikang, Ma, Wennian, Wang, Yuming, Chen, Jing, Shen, Mingxing, and Miao, Laicheng, eds., Geology and Mineral Resources Proceedings of Ministry of Metallurgical Industry, p. 114-118.
- Howe, S.S., and Theodore, T.G., 1993, Sulfur isotopic composition of vein barite—A guide to the level of exposure of disseminated gold- porphyry copper systems in north-central Nevada? [abs.]: Geological Society of America, Abstracts with Programs, v. 25, no. 6, p. A162-A163.
- Howe, S.S., Theodore, T.G., and Arehart, G.B., 1995, Sulfur isotopic composition of vein barite—A guide to the level of exposure of disseminated gold-porphyry Cu system in north-central Nevada? [abs.]: Geological Society of America, Abstract with Programs, v. 25, no. 6, p. A162-A163.
- Howe, S.S., Theodore, T.G., and Arehart, G.B., 1995, Sulfur and oxygen isotopic composition of vein barite from the

- Marigold Mine and surrounding area, north-central Nevada Applications to gold exploration [abs.]: Reno, Nevada, Geological Society of Nevada, Geology and ore deposits of the American Cordillera, Symposium, Program with Abstracts, p. 39.
- Hu, Jianmin and Zhang, Haishan, 1994, Geological characteristics of Jinlongshan disseminated-type gold deposit, Shannxi province (in Chinese), in Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, (eds.), Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing, p. 306–316.
- Huang, Genshen and Du, Yiyu, 1993, The features and genesis of micro-grained and disseminated gold deposits in Sandu-Danzhai Hg-ore zone, Guizhou (in Chinese): *Geology of Guizhou*, v. 10, no. 1, p. 1–9.
- Huang, Yong , 1993, A possible relation between the disseminated gold mineralization and Upper Permian coal zoning in western Guizhou (in Chinese): *Geology of Guizhou*, v. 10, no. 4, p. 300–307.
- Ilchik, R.P., and Barton, M.D., 1995, Numerical simulation of the development of Carlin-type gold deposits of the Great Basin, a source-sink approach to mineral deposit formation [abs.], in *Geology and Ore Deposits of the American Cordillera*, Reno, Nevada: Geological Society of Nevada, Program with Abstracts, Reno/Sparks, Nevada, April, 1995, p. A39–A40.
- Jones, R.E., 1989, Carlin Trend gold belt: The geology *Mining Magazine*, v. 161, no. 4, p. 256–261.
- Kuehn, C.A., 1989, Studies of disseminated gold deposits near Carlin, Nevada: evidence for a deep geologic setting of ore formation: University Park, Pennsylvania State University, Ph.D. dissertation, 418 p.
- Kuehn, C.A., and Rose, A.W., 1985, Temporal framework for the evolution of fluids at the Carlin gold mine, Eureka County, Nevada [abs.]: Geological Society of America, Abstracts with Programs, v. 18, no. 6, p. 663.
- 1992, Geology and geochemistry of wall rock alteration at the Carlin gold deposit, Nevada: *Economic Geology*, v. 87, p. 1697–1721.
- 1995, Carlin-gold deposits, Nevada: Origin in a deep zone of mixing between normally pressured and over pressured fluids: *Economic Geology*, v. 90, no. 1, p. 17–36.
- Lahren, M.M., Schweickert, R.A., Connors, K.A., and Luddington, S., 1995, Allochthonous tectonic units of the central and western Great Basin: *Geology and Ore Deposits of the American Cordillera*, Reno/Sparks, Nevada, 1995, Program with Abstracts, p. A45.
- Lamb, J.B., and Cline, J., 1997, Depths of Formation of the Meikle and Betze/Post deposits, in *Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., Carlin-type Gold Deposits Field Conference, Economic Geology Guidebook Series*, vol. 28, p. 101–108.
- Leonardson, R.W., and Rahn, J.E., 1996, Geology of the Betze-Post gold deposits, Eureka County, Nevada, in *Coyner, A.R., and Fahey, eds., Geology and Ore Deposits of the American Cordillera: Geological Society of Nevada, Symposium Proceedings*, Reno/Sparks, Nevada, April, 1995, p. 61–94.
- Li, Yiadong and Li, Yingtao, 1994, Geological characteristics and genesis model of Laerma disseminated-type gold deposits, Gansu province (in Chinese), in *Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing*, p. 226–253.
- Li, Wenkang, Jiang, Xinchun, Ju, Ranhong, Mang, Fanyi and Zhang, Shuxin, 1989, The characteristics and metallogenic process of disseminated gold deposits in southwest Guizhou, 1989, in *Proceeding on Regional Metallogenic Conditions About Main Types of Chinese Gold Deposits: Geological Publishing House, Beijing*, v. 6, p1–86.
- Li, Zhenghai, Wang, Guotian, Shang, Di and Fang, Yuekui, 1994, *Geology of and*

- genesis of Jinyia gold deposit, Guangxi District (in Chinese): in Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., Chinese Carlin-type gold deposits: University of Nanjing Press, Nanjing, p. 37-78.
- Li, Zhiping, 1989, The geological and geochemical characteristics of the Rushan granite in east Jiaodong and its relationship to the gold mineralization: Proceeding of International Symposium on Gold Geology Exploration, p. 745-751.
- 1992, The genesis of the Rushan gold deposit in eastern China (in Chinese): Mineral Deposits, v. 11, no. 1, p. 165-178.
- Li, Zhiping, and Peters, S.G., 1996, Geology and geochemistry of Chinese sediment hosted (Carlin-type) gold deposits [abs.]: Geological Society of America, Abstracts with Programs, 1996 Annual Meeting, p. A-153.
- 1998, A example of organizing geological data by computer technique introduction of the Database of Chinese Carlin-type Gold Deposits (DCCGD 1.0): Ralph J. Roberts Center for Research in Economic Geology, Program and Reports, Annual Research Meeting-1997, p. 1-12 (unpublished).
- Li, Zhiping and Yang, Wensi, 1989, Relation between magmatism and gold mineralization in south Anhui province (in Chinese): Contributions to Geology and Mineral Resource Research, v. 4, no 2, p. 45-53.
- Li, Jiuling and others, 1993, The discovery and study of genesis on negative charge of gold in sulfide minerals (in Chinese), (unpublished).
- Liao, Jialin, 1987, Possibility in searching for Carlin-type gold deposits in Jilin Province (in Chinese): Geology of Jilin, 1987, v. 4, no. 24, p. 19-24.
- Lin, Baozeng, Wang, Tang, Si, Gouqiang, Wang, Fangwen and Zhao, Yianqing, 1994, Geological characteristics and model of Pingding As-Au deposit (in Chinese), in Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing, p. 203-225.
- Liu, Bingguang and Yeap, E.B., 1992, Gold deposits of China: Newsletter of the Geological Society of Malaysia, v. 18, no. 6, p. 291-293.
- Liu, Dongsheng and Geng, Wenhui, 1985, The mineral associations and mineralization conditions of the Carlin-type gold deposits in China (in Chinese): Geochimica, 1985, v. 3, p. 277-282.
- Liu, Dongsheng and Geng, Wenhui, 1987, China's Carlin-type gold deposits; their geological features, genesis and exploration guides (in Chinese): Geology and Prospecting, v. 23, no. 12, p. 1-12.
- Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Liu, Luanling, 1991, Carlin-type gold deposits in China, in Ladeira, Eduardo A., ed., Brazil Gold '91, Rotterdam, Bakema, p. 89-93.
- Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Wei, Longming, 1994, Carlin-type gold deposits in China: in Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing, p. 1-36.
- Liu, Keyun, 1991, Prospecting symbols of fine grain disseminated gold ore deposits in southwestern Guizhou (in Chinese): Geology of Guizhou, v. 8, no. 2, p. 174-179.
- Liu, Miao, 1994, Geological characteristics of Liba gold deposit (in Chinese), in Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing, p. 160-202.
- Lu, Guanqing, Guha, Jayanta, Lu, Huanzhang and Tu, Guangzhi, 1992, Highly evolved petroleum fluid inclusions in sedimentary-rock hosted disseminated gold deposits; the Danzhai gold-Hg mine, Guizhou, P.R. China: Fourth Biennial Pan-American Conference on Research on Fluid Inclusions, Program and Abstracts, v. 4, p. 54.
- Lu, Huanzhang, 1988, Fluid inclusion studies on different types of Chinese gold deposits: gold 88, Abstracts

- Geological Society of Australia. 23, (1-2), p. 442-444.
- Luo, Xiaohuan, 1993, Exploration of the mechanisms and features of ore-control fault (F3) and structure metallogenic processes at the Lannigou gold deposit: *Guizhou Geology*, v.1, no. 1, p. 26-40 (in Chinese).
- 1994, Geological characteristics, forming mechanism and prospect on Lannigou gold deposit in Zhengfeng county, Guizhou Province (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., *Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing*, p. 100-115.
- 1996, A study on the control of geometric and kinetic features of faults structures on the location of gold deposits - example from Carlin-type gold deposits of southwest Guizhou: *Guizhou Geology*, v. 14, no. 1, p. 46-54 (in Chinese).
- Madeisky, H.E., 1996, Application of pearce element ratio analysis to lithochemical exploration of Carlin-type sediment-hosted gold deposits [abs.], *in* *Geology and Ore Deposits of the American Cordillera: Geological Society of Nevada, Reno/Sparks, Nevada 1995, Program with Abstracts*, p. A47.
- Mercado, A.C., Estoque, J., Domingo, B., Acenas, M. And Abaigar, J., 1987, Geology and ore genesis of the Siana gold-silver deposit, Surgao del Norte, Philippines, *Extended Abstracts, Pacific Rim Congress '87, Gold Coast, Australia, August 1987*, p. 1-4.
- Mai, Changrong, 1989, A discussion on the metallogenic model of Dachang-style gold ore and ore searching in southwestern Guizhou: *Bulletin of the 562 Comprehensive Geological Brigade* (in Chinese): *Chinese Academy of Geological Sciences*, v. 7-8, p. 37-50.
- Mao, Shuihe, 1991, Occurrence and distribution of invisible gold in a Carlin-type gold deposit in China: *American Mineralogist*, v. 76, nos. 11-12, p. 1964-1972.
- Mao, Yunian and Li, Xiaozhuang, 1994, The main geological characteristics of Dongbeizhai gold deposit in joint area of Sichuan, Gansu and Shannxi province (in Chinese): *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., *Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing*, p. 317-342.
- Margolis, Jacob, 1997, Gold paragenesis in intrusion-marginal sediment-hosted gold mineralization at Eureka, Nevada, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., *Carlin-type Gold Deposits Field Conference: Economic Geology Guidebook Series*, vol. 28, p. 213-222.
- Matti, J.C., McKee, E.H., 1977, Silurian and lower Devonian paleogeography of the outer continental shelf of the Cordilleran miogeosyncline, central Nevada, *Paleozoic pelogeography of the western United States: Society of Economic and Paleontologists and Mineralogist Pacific Section, Pacific Coast Paleogeography Symposium 1*, p.181-217.
- Mortensen, James K., Poulsen, K Howard, 1993, Styles of gold mineralization in continental arc settings: examples from NE China and western North America: *Geological Association of Canada, Mineralogical Association of Canada, Annual Meeting, Program with Abstracts*, p. 72.
- Norman, D.I., Groff, John, Camalli, Cem, Musgrave, John, and Moore, J.N., 1996, Gaseous species in fluid inclusions: Indicators of magmatic input into ore-forming geothermal systems [abs.]: *Geological Society of America, Abstracts with Programs*, v. 28, no. 7, p. A-401.
- Parry, W.T., Wilson, P.N., and Presnell, Ricardo, 1997, Clay alteration and age of sediment-hosted disseminated gold deposits in the Fold and Thrust Belt, Utah, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., *Carlin-type Gold Deposits Field Conference: Economic Geology Guidebook Series*, vol. 28, p. 185-192.

- Peng, Yiangqi, 1994, Discussion about genesis and ore-forming condition in the southwest Guizhou Province (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing, p. 133-141.
- Percival, T.J., Bagby, W.C., and Radtke, A.S., 1988, Physical and chemical features of precious-metal deposits hosted by sedimentary rocks in the western United States, *in* Schafer, R.W., Cooper, J.J., and Vikre, P.G., eds., Bulk mineable precious metal deposits of the western United States: Reno, Nevada, Geological Society of Nevada, Symposium Proceedings, p. 11-34.
- Peters, S.G., 1996, Definition of the Carlin trend using orientation of fold axes and applications to ore-control and zoning in the central Betze orebody, Betze-Post Mine, *in* Green, Steve ed., Trip B, Structural Geology of the Carlin Trend, Geology and Ore Deposits of the American Cordillera-A Symposium, Field Guide Compendium: Geological Society of Nevada, Reno, Nevada, p. 59-95.
- 1997a, Structural transect across the southern Carlin Trend, Elko and Eureka Counties, Nevada: U.S. Geological Survey Open-File Report 97-0347, 27 p. 2 sheets, [scale 1:500].
- 1997b, Structural transect across the central Carlin Trend, Eureka County, Nevada: U.S. Geological Survey Open-File Report 97-55, 40 p., 2 sheets, [scale 1:6,000].
- 1997c, Structural transect across the north-central Carlin Trend, Eureka County, Nevada: U.S. Geological Survey Open-File Report 97-83, 41 p. 6 sheets, [scale 1:500].
- Peters, S.G., Leonardson, R.W., Ferdock, G.C., and Lauha, E.A., 1997, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., Carlin-type Gold Deposits Field Conference, Economic Geology Guidebook Series, vol. 28, p. 87-100.
- Peters, S.G., Nash, J.T., John, D.A., Spanski, G.T., King, H.D., Connors, K.A., Moring, B.C., Doebrich, J.L., McGuire, D.J., Albino, G., Dunn, C., Theodore, T.G., and Ludington, Steve, 1996, Metallic mineral resources in the U.S. Bureau of Land Management's Winnemucca District and Surprise Resource Area, northwest Nevada and northeast California: U.S. Geological Survey Open-File Report 96-712, 147 p., 11 sheets, [scale 1:1,100,000].
- Phinisey, J.D., Hofstra, A.H., Snee, L.W., Roberts, T.T., Dahl, A.R., and Loranger, R.J., 1996, Evidence for multiple episodes of igneous and hydrothermal activity and constraints on the timing of gold mineralization, Jerritt Canyon, District, Elko County, Nevada, *in* Coyner, A.R., and Fahey, P.L., eds., Geology and Ore Deposits of the American Cordillera: Geological Society of Nevada Symposium Proceedings, Reno/Sparks, Nevada, April 1995, p. 15-39.
- Poole, F.G., 1991, Geologic framework for sediment hosted gold deposits in northeastern Nevada, *in* Buffa, R.H., Coyner, A.R., eds., Geology and ore deposits of the Great Basin, Field Trip Guidebook Compendium: Geological Society of Nevada, p. 94-101.
- Prihar, D.W., Peters, S.G., Bourns, F.T., and McKee, E.H., 1996, Geology and gold potential of the Goat Ridge window, Shoshone Range, Lander County, Nevada, *in* Coyner, A.R., and Fahey, P.L., eds., Geology and Ore Deposits of the American Cordillera: Geological Society of Nevada Symposium Proceedings, Reno/Sparks, Nevada, April 1995, p. 485-504.
- Qiu, Youshou and Yang, Wensi, 1997, The properties and ore-finding prospects of new type gold deposit in eastern area, Hebei Province, China, (unpublished).
- Radtke, A.S., 1985, Geology of the Carlin gold deposit, Nevada: U.S. Geological Survey Professional Paper 1267, 124 p.
- Radtke, A.S., and Dickson, F.W., 1976a, General features of disseminated replacement gold deposits of the Carlin-type, Symposium on Disseminated gold deposits:

- MSM/UNR. Reprints with Program, p. 1-2.
- Roberts, R.J., 1960, Alignment of mining districts in north-central Nevada: U.S. Geological Survey Professional Paper 400—B. p. 17-19.
- 1966, Metallogenic provinces and mineral belts in Nevada: Nevada Bureau of Mines Report 13, pt. A, p. 47-72.
- Rota, J.C., 1987, Geology of Newmont Gold Company's Gold Quarry deposit, Eureka County, Nevada, *in* Elliott, I.L., and Smee, B.W., eds., GEOEXPO/86—Exploration in the North American Cordillera: Calgary, Canada, Association of Exploration Geochemists, p. 42-50.
- Rota, J.C., Ekborg, C.E., 1988, History and geology outlined for Newmont's Gold Quarry Deposit in Nevada: *Mining Engineering*, v. 40, no. 4, p. 239-245.
- Rytuba, J.J., 1985, Geochemistry and hydrothermal transport and deposition of gold and sulfide minerals in Carlin type gold deposits: U.S. Geological Survey Bulletin 1646, 150 p.
- Seedorff, Eric, 1991, Magmatism, extension, and ore deposits of Eocene to Holocene age in the Great Basin—mutual effects and preliminary proposed genetic relationships, *in* Raines, G.L., Lisle, R.E., Schafer, R.W., and Wilkinson, W.H., eds., *Geology and ore deposits of the Great Basin*, Symposium Proceedings: Reno, Nevada, Geological Society of Nevada, p. 133-178.
- Shao, Jielian, 1989, Application of mineralogy to mineral exploration of deep disseminated deposits in China: *Geology and Prospecting*, v. 25, no. 6, p. 23.
- Shao, Jielian, Xu, Guofeng, Feng, Shuzhuang, Lu, Ruiying and Mei, Jianming, 1982, Study of a pyrite of a Carlin-type gold deposit in Shannxi, China (in Chinese): *Acta-Petrologica. Mineralogica. et Analytica.*, v. 1, no. 2, p. 25-35.
- Shawe, D.R., 1991, Structurally controlled gold trends imply large gold resources in Nevada, *in* Raines, G.L., Lisle, R.W., Schafer, R.W., and Wilkinson, W.H., eds., *Geology and Ore Deposits of the Great Basin*: Reno, Nevada, Geological Society of Nevada, Symposium Proceedings, v. 2, p. 199-212.
- Shawe, D.R., and Stewart, J.H., 1976, Ore deposits as related to tectonics and magmatism: *Society of Mining Engineers of AIME Transactions*, v. 260, p. 225-231.
- Shi, Xiuqin, 1990, Favorable conditions for disseminated gold deposit exploration in western Zhejiang and a suggestion as to geophysical-geochemical prospecting surveys (in Chinese): *Geology and Prospecting*, v. 26, no 5, p. 49-50.
- Silberman, M.L., Berger, B.R., and Koski, P.A., 1974, K-Ar age relations of granodiorite emplacement and tungsten and gold mineralization near the Getchell mine, Humboldt County, Nevada: *Economic Geology*, v. 69, p. 646-656.
- Sillitoe, R.H., 1988, Gold and silver deposits in porphyry systems, *in* Schafer, R.W., Cooper, J.J., and Vikre, P.G., eds., *Bulk-mineable precious metal deposits of the western United States*: Reno, Nevada, Geological Society of Nevada, April, 1987, Symposium Proceedings, p. 233-257.
- Sillitoe, R.H., Bonham Jr., H.F., 1990, Sediment hosted gold deposits: Distal products of magmatic hydrothermal systems: *Geology*, v. 18, no. 2, p. 157-161.
- Simon, Grigore, Kesler, S.E., Peltonen, D.R., Chryssoulis, S.S., Huang, H., and Penner-Hahn, J.E., 1997, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., *Carlin-type Gold Deposits Field Conference: Economic Geology Guidebook Series*, vol. 28, p. 137-140.
- Tan, Yunjin, 1994, Geology of Carlin-type gold deposits in the Dian-Qian-Gui area (in Chinese): *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, (eds.), *Chinese Carlin-type gold deposits*, University of Nanjing Press, Nanjing, p. 142-159.
- Tao, Changgui, 1990, Ore-controlling factors and exploration guides of superfine-grained disseminated gold deposits, southwestern Guizhou (in Chinese):

- Geology and Prospecting, v. 26, no. 8, p. 9–15.
- Teal, Lewis, and Jackson, Mac, 1997, Geologic overview of the Carlin trend gold deposits and descriptions of recent deep discoveries, *in* Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., Carlin-type Gold Deposits Field Conference: Economic Geology Guidebook Series, vol. 28, p. 3–38.
- Thoreson, R.F., 1990, Geology of the Rain gold mine, Elko county, Nevada, *in* Knutsen, G.; Ekborg, C.; McFarlane, The geology and ore deposits of the Great Basin (field trip guidebook).
- Thorman, C.H., and Christensen, O.D., 1991, Geologic settings of gold deposits in the Great Basin, western United States, *in* Ladiera, E.A, ed., Proceedings of the symposium Brazil Gold '91: Rotterdam, Bakema, p. 65–75.
- Togashi, Yukio, 1992, Geological characteristics of the sedimentary rock-hosted, disseminated gold deposits in the Western United States of America; an overview: Anonymous. Epithermal gold in Asia and the Pacific.; Mineral Concentrations and Hydrocarbon Accumulations in the ESCAP Region, v. 6, p. 40–49.
- Tooker, E.W., ed., 1985, Geologic characteristics of sediment and volcanic-hosted disseminated gold deposits—search for an occurrence model: U.S. Geological Survey Bulletin 1646, 150 p.
- Tu, Guangzhi, 1992, Differences and similarities in Carlin-type gold deposits between southwestern China and western USA: 29th International Geological Congress abstracts, p. 795.
- Tu, Guangzhi, 1994, Preface (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, (eds.), Chinese Carlin-type gold deposits, University of Nanjing Press, Nanjing,.
- Vikre, Peter, Thompson, T.B., Bettles, K., Christensen, Odin, and Parratt, R., eds., 1997, Carlin-type Gold Deposits Field Conference, Economic Geology Guidebook Series, vol. 28, 287p.
- Wagner, F.E., and others, 1986, Mossbauer study of the chemical state of gold in gold ore, *in* gold 100, Proceedings of the International Conference on Gold, v. 2: Extractive metallurgy of gold: Johannesburg, South African Inst. Mining Metallurgy, p. 435–442.
- Wang, Ju and Du, Letian, 1993, Geology and geochemistry of the carbonaceous-siliceous-argillaceous rock type gold deposits in China: Resource Geology Special Issue, no. 16, p. 335–345.
- Wang, Kuiren and Zhou, Youqin, 1992, *invisible* gold in sulfide ores of the Jinya micro-grained gold deposit, South China [abs.]: 29th International Geological Congress, Abstracts, p. 796.
- 1994, Mineralogy of the Carlin-type Dongbeizhai and Jinya gold deposits, southwestern China: International Geology Review, v. 36, no. 2, p. 194–202.
- Wang, Xiaochun, 1993, On ore-forming conditions of the fine-disseminated gold deposits in Qiuluo metallogenic belt, Ganzi County, Sichuan: Journal of Mineralogy and Petrology, v. 3, no. 1, p. 68–75.
- 1996, On isotope geology of micro-disseminated type of gold deposits in China, *in* Liu, Yikang, Ma, Wennian, Wang, Yuming, Chen, Jing, Shen, Mingxing, and Miao, Laicheng, eds., Geology and Mineral Resources Proceedings of Ministry of Metallurgical Industry, p. 109–114.
- Wang, Yangeng, 1994, On a regional metallogenic model for Carlin-type gold deposits in southwestern Guizhou (in Chinese): Geology of Guizhou, v. 11, no. 1, p. 1–8.
- Wang, Yiangeng, Sue, Shutian and Zhang, Minfa, 1994, Structure and Carlin-type gold deposits in southwestern Guizhou Province: Geological Publishing House, Guiyan.
- Wang, Yuming, Jing, Chenggui, Wei, Zhenhuan and Yang, Qingde, 1996, The tectonic and its control on the Au-mineral deposits in the Tethyan domain of southwest China, *in* Liu, Yikang, Ma, Wennian, Wang, Yuming, Chen, Jing, Shen, Mingxing, and Miao, Laicheng, eds., Geology and Mineral Resources Proceedings of Ministry of Metallurgical Industry, p. 109–114.

- Wei, Longming and Cao, Yuangui, 1994, Geological characteristics and genesis analysis of Baguamiao gold deposits, Shannxi province (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, eds., Chinese Carlin-type Gold Deposits: University of Nanjing Press, Nanjing, p.286-305.
- Wells, J.D., and Mullens, T.E., 1973, Gold-bearing arsenian pyrite determined by microprobe analysis, Cortez and Carlin gold mines, Nevada: *Economic Geology*, v. 68, p. 187-201.
- Wells, J.D., Stoiser L.R., Elliott J.E., 1969, Geology and Geochemistry of the Cortez gold deposit, Nevada: *Economic Geology*, v. 64, no 5, p. 526-537
- Wu, Xin and others, 1989, Hydrothermal synthesis of gold-bearing arsenopyrite: *Geol.* v. 84, p. 2029-2032.
- Xu, Guofeng, and others, 1981, Research on minerals of the Ertai gold deposit, Shannxi Province, as partially referenced in Liu, D.S. and Geng, W.H., 1987.
- Xu, Guofeng, Shao, Jieliang and Feng, Shuzhuang, 1982, Mineralogy of "Carlin type" gold deposit of Shannxi (in Chinese): *Journal of the Wuhan College of Geology Earth Science*, v. 18, no. 3, p. 211-221.
- Yang, Minzhi and Li, Zhiping, 1989, Research on geochemistry, formation mechanism of alteration zones in the Jinqingding gold deposit, and its significance for gold exploration in the Jiaodong area (in Chinese): *Contributions to Geology and Mineral Resources*, v. 4, no. 2, p. 1-17.
- Yao, Zhongyou, 1990, Tectonic-Paleogeographic control of sediment-reformed gold deposits in China (in Chinese): *Bulletin of the Nanjing Institute of Geology and Mineral Resources, Chinese Academy of Geological Sciences*, v. 11, no. 2, p. 87-93.
- Zeng, Yunfu and Yin, Haisheng, 1994, The role of organic materials play in the process of ore-forming of Carlin-type gold deposit (in Chinese), *in* Liu, Dongsheng, Tan, Yunjin, Wang, Jianye and Jiang, Shufang, (eds.), Chinese Carlin-type gold deposits, University of Nanjing Press, Nanjing, p. 374-382.
- Zhang, Zhengru, 1984, The research of sub-micron gold by electronic microscopy, probe and SEM (in Chinese): *Proceeding of National Conference of Genetic Minerals*, (unpaginated).
- Zhang, Feng and Yang, Keyou, 1993, A study on the metallogenic epoch fine disseminated gold deposit in Southwest Guizhou using fission tracks: *Chinese Science Bulletin*, v. 38, no. 5, p. 408-412.
- Zhang, Zhanao, 1993, Typomorphic characteristics of principal gold-carrying minerals from Laerma gold deposit (in Chinese): *Journal of Mineralogy and Petrology*, v. 13, no. 13, p. 41-49.
- Zheng, Minghua, Zhou, Yufeng and Gu, Xuexiang, 1991, Isotopic compositions in the Dongbeizhai fine-disseminated gold deposit, Szechwan, and their genetic implications: *Scientia Geological Sinica*, v. 2, p. 159-173