

VLADIMIR KRESIN, Prof., Dr.
582 Westfield Way
Oakland, CA 94619

Education

- 1968 D. Sci. in Physics and Mathematics
 Moscow, USSR.
 Thesis: "Problems in the Theory of
 Superconductivity"
- 1960 Ph.D. in Physics and Mathematics
 Moscow, USSR
 Thesis: "Transport Properties and Paramagnetism in
 Superconductors"
- 1957-1958 Landau's School, Moscow
 Examinations in Theoretical Physics

RESEARCH EXPERIENCE:

- 1980-present Staff Scientist, Principal Investigator
 Lawrence Berkeley National Laboratory, M/S 62-203
 University of California, Berkeley, CA 94720 USA
- 1960-1978 Professor of Physics
 Pedagogical University, Moscow

Research:

Theory of Superconductivity

Transport and electromagnetic properties, strong coupling, mechanisms of superconductivity, proximity effect, isotope effect, high T_c .

Statistical Mechanics. Solid State Physics

Thin films, structural transitions, optical properties, magnetism

Molecular Spectroscopy, Quantum Chemistry

Non-anabaticity. π -electron systems, polyatomic photodissociation, chemical dynamics, catalysis.

Nanosystems.

Spectroscopy. Pair correlation

PUBLICATIONS:

About 240 articles (Superconductivity, magnetism, quantum chemistry, spectroscopy, nano systems) and four monographs (complete list is available upon request)

OFFICES:

Editor of the international Journal of Superconductivity & Novel Magnetism

Special Award (American Physical Society):
"Outstanding Referee" (January, 2011)

Chairman of the first Gordon Conference on Superconducting Films (1985)

Chairman of the International Conference on Novel Mechanisms of Superconductivity (Berkeley, 1987)

Chairman of the Program Committee of the International Conference on Molecular and Oxides Superconductors (Eugene, 1993)

Chairman of the International School on Pair Correlations in Many Fermion Systems (Italy, 1997)

Chairman of the Program Committee of the International Conference "Polarons: Condensation, Superconductivity, Magnetism" (Italy, 1998)

Co-Chairman of the International Conference "Ionic, Organic & Electronic Superconductors & Magnetic Materials: Advances & Research Technologies" (France, 1999)

Co-Chairman of the International Conference "Major Trends in Superconductivity in the New Millennium" (Switzerland, 2000)

Chairman of the International Conference "Induced Cooperative Phenomena" (Berkeley, 2000)

Co-Chairman of the International Conference "Superconductors and Related Materials: Novel Trends", (France, 2002)

Co-Editor of the book "Novel Superconductivity" Plenum, New York (1987) (jointly with S. Wolf)

Co-Editor of the book "Organic Superconductivity", Plenum, New York (1990) (jointly with W. A. Little)

Co-Editor of the book "From High Temperature Superconductivity to Microminiature Refrigeration", Plenum, New York (1996) (jointly with B. Cabrera and H. Gutfreund)

Editor of the book "Pair Correlations in Many-Fermion Systems", Plenum, New York (1998)

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