

BIBLIOGRAPHY

- AKB80 D.E. Aspnes, E. Kinsbron, and D.D. Bacon  
Optical properties of Au: Sample effects  
Phys. Rev. B 21, 3290 (1980)
- Aks74 L.N. Aksyntov  
Normal spectral emissivity of gold, platinum, and tungsten  
Inzh.-Fiz. Zh. 27, 197 (1974)
- AN79 C. Alvani and J. Naegele  
Optical reflectivity measurements on thorium metal samples  
J. Physique 40, C4-131 (1979)
- BB66 H.E. Bennett and J.M. Bennett  
Validity of the Drude theory for silver, gold and aluminum in  
the infrared  
Optical Properties and Electronic Structure of Metals and Alloys  
ed. by F. Abeles (North Holland Publishing Co. Amsterdam, 1966)  
p. 175
- BBA68 H.E. Bennett, J.M. Bennett, E.J. Ashley, and R.J. Motyka  
Verification of the anomalous-skin-effect theory for silver in  
the infrared  
Phys. Rev. 165, 755 (1968)
- BBS71 E.A. Bakulin, L.A. Balabanova, E.V. Stepin, and V.V. Shcherbinina  
Characteristic energy losses of electrons in the rare-earth metals  
Ho, Er, Tm, and Yb  
Soviet Phys. Solid State 13, 189 (1971)  
Fiz. Tverd. Tela. 13, 241 (1971)
- BCF75 B. Brousseau-Lahaye, C. Colliex, J. Frandon, M. Gasgnier, and  
P. Trebbia  
Determination of the electron excitation spectrum in scandium  
and yttrium by means of characteristic energy loss measurements  
Phys. Stat. Solidi B 69, 257 (1975)
- BCT79 D. Beaglehole, M. DeCrescenzi, M.L. Thèye, and G. Vuye  
Dielectric constant of gold, copper, and gold-copper alloys  
between 18 and 35 eV  
Phys. Rev. B 19, 6303 (1979)
- Bea55 J.R. Beattie  
Optical constants in the infrared - experimental methods  
Phil. Mag. 46, 235 (1955)
- Bea57 J.R. Beattie  
The anomalous skin effect and the infrared properties of silver  
and aluminum  
Physica 23, 898 (1957)

BIBLIOGRAPHY (cont'd)

- Bea65 D. Beaglehole  
Optical properties of copper and gold in the vacuum ultraviolet  
Proc. Phys. Soc. 85, 1007 (1965)
- Ben Unpub R.L. Benbow  
Unpublished
- BG68 M.A. Biondi and A.I. Guobadia  
Infrared absorption of aluminum, copper, lead, and nickel at 4.2 K  
Phys. Rev. 166, 667 (1968)
- BHM60 P.H. Berning, G. Hass, and R.P. Madden  
Reflectance-increasing coatings for the vacuum ultraviolet and  
their applications  
J. Opt. Soc. Am. 50, 586 (1960)
- BHM73 L.G. Bernland, O. Hunderi, and H.P. Myers  
Optical absorption in vapor-quenched aluminum  
Phys. Rev. Lett. 31, 363 (1973)
- Bio56 M.A. Biondi  
Optical absorption of copper and silver at 4.2 K  
Phys. Rev. 102, 964 (1956)
- BKB76 D.N. Baria, T.S. King, and R.G. Bautista  
The normal spectral emittance of yttrium, lanthanum, cerium,  
praseodymium, and neodymium above 1000 K  
Metall. Trans. B 7, 577 (1976)
- BKS74 C. Bonnelle, R.C. Karnatak, and J. Sugar  
Photoabsorption in the vicinity of 3d absorption edges of La,  
La<sub>2</sub>O<sub>3</sub>, Ce and CeO<sub>2</sub>  
Phys. Rev. A 9, 1920 (1974)
- BL75 R.L. Benbow and D.W. Lynch  
Optical absorption in Al and dilute alloys of Mg and Li in Al  
at 4.2 K  
Phys. Rev. B 12, 5615 (1975)
- BoL70 L.W. Bos and D.W. Lynch  
Low-energy optical absorption peak in aluminum and Al-Mg alloys  
Phys. Rev. Lett. 25, 156 (1970)
- BSA63 H.E. Bennett, M. Silver, and E.J. Ashley  
Infrared reflectance of aluminum evaporated in ultra-high vacuum  
J. Opt. Soc. Am. 53, 1089 (1963)
- BSY66 A.J. Blodgett, Jr., W.E. Spicer, and A.Y-C. Yu  
The band structure of gadolinium; photoemission and optical studies  
Optical Properties and Electronic Structure of Metals and Alloys  
ed. by F. Abelès (North Holland Publishing Co., Amsterdam, 1966)  
p. 246

BIBLIOGRAPHY (cont'd)

- BT77 D. Beaglehole and B. Thiéblemont  
Direct determination of optical constants and the d absorption  
of Au, Cu, and AuCu alloys  
Il Nuovo Cimento B 39, 477 (1977)
- CDG78 M. Cukier, P. Dhez, B. Gauthé, P. Jaeglié, Cl. Wehenkel, and  
F. Combet Farnoux  
Photoabsorption of Th and U by direct measurement and by fast  
electron energy loss spectra near the 5d thresholds  
J. Physique 39, L315 (1978)
- CEP65 B.R. Cooper, H. Ehrenreich, and H.R. Philipp  
Optical properties of noble metals. II.  
Phys. Rev. 138, A494 (1965)
- CGT76 C. Colliex, M. Gasgnier, and P. Trebbia  
Analysis of the electron excitation spectra in heavy rare earth  
metals, hydrides, and oxides  
J. Physique 37, 397 (1976)
- CGT79 K.T. Chee, F.E. Girouard, and V.V. Truong  
Optical behavior of yttrium films in ultrahigh vacuum  
Appl. Optics 18, 1702 (1979)
- CGW80 M. Cukier, B. Gauthé, and C. Wehenkel  
Interband, collective and atomic (p,d) excitations from 2 to 160 eV  
in Sc, Y, lanthanides and actinides and in some of their compounds  
by FEELS  
Private communication, to be published
- CHH64 L.R. Canfield, G. Hass, and W.R. Hunter  
The optical properties of evaporated gold in the vacuum ultra-  
violet from 300 Å to 2000 Å  
J. Physique 25, 124 (1964)
- CK73 R. Chander and R. Kumar  
Optical absorption in vacuum-evaporated ytterbium films  
Phys. Stat. Sol. B 20, 739 (1973)
- Cle Pvt B. Cleyet  
private communication with J.P. Pétrakian referenced in Pet74
- CR65 B.R. Cooper and R.W. Redington  
Infrared absorption structure in rare earth metals: relationship  
to spin arrangement and band structure  
Phys. Rev. Lett. 14, 1066 (1965)
- Dan67 J. Daniels  
Energieverlustmessungen an Silber mit hoher Energieauflosung  
Z. Physik 203, 235 (1967)

BIBLIOGRAPHY (cont'd)

- Dan69 J. Daniels  
Bestimmung von optischen Konstanten von Palladium und Silber aus  
Energieverlustmessungen im Energiebereich von 2 bis 90 eV  
Z. Physik 227, 234 (1969)
- Dan71 J. Daniels  
Bestimmung optischen Konstanten von Gadolinium und Dysprosium  
durch Energieverlustmessungen von 60 keV Elektronen  
Optics Comm. 3, 13 (1971)
- DFR70 J. Daniels, C.V. Festenberg, H. Raether, and K. Zeppenfeld  
Optical constants of solids by electron spectroscopy  
Springer Tracts in Modern Physics, Vol. 54, ed. by G. Höhler  
(Springer-Verlag, Berlin, 1970) p. 77
- DH64 L.F. Drummeter, Jr. and G. Hass  
Solar absorptance and thermal emittance of evaporated coatings  
Physics of Thin Films, Vol. 2 (Academic Press, Inc., New York,  
1964) p. 305
- DoM65 B. Dold and R. Mecke  
Optische Eigenschaften von Edelmetallen, Übergangsmetallen und  
deren Legierungen im Infrarot  
Optik 22, 435 (1965)
- EBF74 J.L. Erskine, G.A. Blake, and C.J. Flaten  
Optical properties of Gd, Dy, and Tb  
J. Opt. Soc. Am. 64, 1332 (1974)
- EF76 J.L. Erskine and C.P. Flynn  
Measurement of the 4f shell optical edge in Gd metal  
Phys. Rev. B 14, 2197 (1976)
- EPS63 H. Ehrenreich, H.R. Philipp, and B. Segall  
Optical properties of aluminum  
Phys. Rev. 132, 1918 (1963)
- ErS73 J.L. Erskine and E.A. Stern  
Magneto-optic Kerr effects in gadolinium  
Phys. Rev. B 8, 1239 (1973)
- ES70 J.G. Endriz and W.E. Spicer  
Reflectance studies of Ba, Sr, Eu, and Yb  
Phys. Rev. B 2, 1466 (1970)
- FDS77 L.A. Feldkamp, L.C. Davis, and M.B. Stearns  
Analysis of electron inelastic-scattering data with application  
to Cu  
Phys. Rev. B 15, 5535 (1977)

BIBLIOGRAPHY (cont'd)

- FL67 V.A. Fomichev and A.P. Lukirskii  
Absorption coefficients of aluminum in the 23.6-410 Å range of  
ultrasoft x-radiation  
Opt. Spectrosc. 22, 432 (1967)  
Opt. Spektrosk. 22, 796 (1966)
- FLS75 N. Fuschillo, B. Lalevic, W. Slusark, Jr., and A. Delahoy  
Optical properties of thin Au-Cr films and their application to  
solar energy conversion  
J. Vac. Sci. Technol. 12, 84 (1975)
- FNi80 A. Fäldt and P.O. Nilsson  
Optical properties of uranium in the range 0.6-25 eV  
J. Phys. F: Metal Physics 10, 2573 (1980)
- FN80 A. Fäldt and P.O. Nilsson  
Optical properties of thorium in the range 0.5-25 eV  
Phys. Rev. B 22, 1740 (1980)
- FS66 H. Fukutani and O. Sueoka  
Optical Properties of Ag-Au Alloys  
Optical Properties and Electronic Structure of Metals and Alloys  
ed. by F. Abeles (North Holland Publishing Co., Amsterdam, 1966)  
p. 564
- FS75 C.J. Flaten and E.A. Stern  
Optical constants of some silver alloys  
Phys. Rev. B 11, 638 (1975)
- FZG67 V.A. Fomichev, T.M. Zimkina, S.A. Gribovskii, and I.I. Zhukova  
Discrete absorption by 4d electrons in the lanthanum group rare-  
earth metals  
Sov. Phys. Solid State 9, 1163 (1967)  
Fiz. Tverd. Tela. 9, 1490 (1967)
- GB70 C. Gähwiller and F.C. Brown  
Photoabsorption near the L<sub>II,III</sub> edge of silicon and aluminum  
Phys. Rev. B 2, 1918 (1970)
- GH76 C.G. Granqvist and O. Hunderi  
Optical absorption in ultrafine gold particles  
Solid State Comm. 19, 939 (1976)
- GK72 W. Gudat and C. Kunz  
Close similarity between photoelectric yield and photoabsorption  
spectra in the soft x-ray range  
Phys. Rev. Lett. 29, 169 (1972)

BIBLIOGRAPHY (cont'd)

- GMS60 A.I. Golovashkin, G.P. Motulevich, and A.A. Shubin  
Determination of microscopic parameters of aluminum from its  
optical constants and electric conductivity  
Sov. Phys. JETP 11, 38 (1960)  
J. Exptl. Theoret. Phys. (USSR) 38, 51 (1960)
- GZN78 V.P. Gnezdilov, N.M. Zvyagina, G.S. Nikol'skii, V.V. Eremenko,  
and A.B. Beznosov  
Optical properties of bulk gadolinium in the range 0.5-3.1 eV  
Sov. J. Low Temp. Phys. 4, 606 (1978)  
Fiz. Nizk. Temp. 4, 1286 (1978)
- HAM64 R.H. Huebner, E.T. Arakawa, R.A. MacRae, and R.N. Hamm  
Optical constants of vacuum-evaporated silver films  
J. Opt. Soc. Am. 54, 1434 (1964)
- Has63 G. Hass  
in American Institute of Physics Handbook  
(McGraw-Hill Book Company, Inc., New York, 1963) Chapter 6,  
p. 119
- HC69 J.N. Hodgson and B. Cleyet  
Absorption bands of gadolinium in the ferromagnetic and  
paramagnetic states  
J. Phys. C: Solid State Phys. 2, 97 (1969)
- HCN73 J.H. Halford, F.K. Chin, and J.E. Norman  
Effects of vacuum deposition conditions on ellipsometric parameters,  
optical constants, and reflectance of ultrapure aluminum films  
J. Opt. Soc. Am. 63, 786 (1973)
- HGK74 H.J. Hagemann, W. Gudat, and C. Kunz  
Optical constants from the far infrared to the x-ray region:  
Mg, Al, Cu, Ag, Au, Bi, C, and Al<sub>2</sub>O<sub>3</sub>  
DESY SR-74/7, Hamburg (1974)
- HGK75 H.J. Hagemann, W. Gudat, and C. Kunz  
Optical constants from the far infrared to the x-ray region:  
Mg, Al, Cu, Ag, Au, Bi, C, and Al<sub>2</sub>O<sub>3</sub>  
J. Opt. Soc. Am. 65, 742 (1975)
- HGK76 H.J. Hagemann, W. Gudat, and C. Kunz  
Photoabsorption coefficient of alloys of Al with transition metals  
V, Fe, Ni and with Cu and Pr from 30 eV to 150 eV photon energy  
Phys. Stat. Sol. B 74, 507 (1976)
- HKL77 T. Hollstein, U. Kreibig, and F. Leis  
Optical properties of Au and Al in the visible, determined at  
300 and 1.5 K  
Phys. Stat. Sol. B 83, k49 (1977)

BIBLIOGRAPHY (cont'd)

- HKS68 R. Haensel, C. Kunz, T. Sasaki, and B. Sonntag  
Absorption measurements of copper, silver, tin, gold, and bismuth  
in the far ultraviolet  
Appl. Optics 7, 301 (1968)
- HKS70 R. Haensel, G. Keitel, B. Sonntag, C. Kunz, and P. Schreiber  
Photoabsorption measurement of Li, Be, Na, Mg, and Al in the  
XUV range  
Phys. Stat. Sol. A 2, 85 (1970)
- Ho55 J.N. Hodgson  
The infra-red properties of some metallic films  
Proc. Phys. Soc. B 68, 593 (1955)
- Ho68 J.N. Hodgson  
The optical properties of gold  
J. Phys. Chem. Solids 29, 2175 (1968)
- HRS70 R. Haensel, P. Rabe, and B. Sonntag  
Optical absorption of cerium, cerium oxide, praseodymium,  
praseodymium oxide, neodymium, neodymium oxide, and samarium in  
the extreme ultraviolet  
Solid State Comm. 8, 1845 (1970)
- HSK69 R. Haensel, B. Sonntag, C. Kunz, and T. Sasaki  
Contribution of L shell to the total absorption cross section  
in aluminum  
J. Appl. Phys. 40, 3046 (1969)
- Hu71 W.R. Hunter  
Comparison of the VUV reflectance spectra of evaporated films of  
some second and third series transition metals for wavelengths  
less than 2000 Å  
Proc. III Int. Conf. Vac. Ultraviolet Rad. Physics, Tokyo (1971)
- Hun64 W.R. Hunter  
Optical constants of metals in the extreme ultraviolet. II.  
Optical constants of aluminum, magnesium, and indium at wave-  
lengths shorter than their critical wavelengths  
J. Opt. Soc. Am. 54, 208 (1964)
- Hun73 O. Hunderi  
Partial disorder in evaporated aluminum films  
Solid State Comm. 12, 237 (1973)
- Hun Unpub O. Hunderi  
Unpublished

BIBLIOGRAPHY (cont'd)

- HW61 G. Hass and J.E. Waylonis  
Optical constants and reflectance and transmittance of evaporated aluminum in the visible and ultraviolet  
J. Opt. Soc. Am. 51, 719 (1961)
- IHW71 G.B. Irani, T. Huen, and F. Wooten  
Optical constants of silver and gold in the visible and vacuum ultraviolet  
J. Opt. Soc. Am. 61, 128 (1971)
- IHW72 G.B. Irani, T. Huen, and F. Wooten  
Optical properties of gold and  $\alpha$ -phase gold-aluminum alloys  
Phys. Rev. B 6, 2904 (1972)
- IrH71 G.B. Irani, T. Huen, and F. Wooten  
Optical properties of Ag and  $\alpha$ -phase Ag-Al alloys  
Phys. Rev. B 3, 2385 (1971)
- JC72 P.B. Johnson and R.W. Christy  
Optical constants of noble metals  
Phys. Rev. B 6, 4370 (1972)
- JC75 P.B. Johnson and R.W. Christy  
Optical constants of copper and nickel as a function of temperature  
Phys. Rev. B 11, 1315 (1975)
- JK54 G. Joos and A. Klopfer  
Die Temperatureabhängigkeit der optischen Konstanten von Cu, Ag und Au bis herab zu 20 K  
Z. Physik 138, 251 (1954)
- JM66 P. Jaegle and G. Missoni  
Coefficient d'absorption massique de l'or dans la région de longueur d'onde de 26 à 120 Å  
C.R. Acad. Sc. Paris 262, 71 (1966)
- Ker56 E. Kern  
Die Bestimmung der optischen Konstanten von Neodym im sichtbaren Spektralgebiet und im nahen Ultrarot  
Z. Physik 148, 38 (1957)
- KH72 L.W. Kry and D. Hemming  
Far-infrared absorption in bulk samples of superconducting d-h.c.p. lanthanum  
Canadian J. Phys. 50, 2549 (1972)
- KN70 Y.V. Knyazev and M.M. Noskov  
Optical properties of gadolinium, samarium, and dysprosium in the optical range 1.13-3.96 eV  
Phys. Met. Metall. 30, 230 (1970)  
Fiz. Met. Metalloved. 30, 214 (1970)



BIBLIOGRAPHY (cont'd)

- KN71 Y.V. Knyazev and M.M. Noskov  
Optical resonance in ferromagnetic gadolinium  
Phys. Met. Metall. 31, 211 (1971)  
Fiz. Met. Metalloved. 31, 1099 (1971)
- KN72 Y.V. Knyazev and M.M. Noskov  
Optical properties of samarium in the infrared range of the  
spectrum  
Phys. Met. Metall. 33, 87 (1972)  
Fiz. Met. Metalloved. 33, 546 (1972)
- KN73 Y.V. Knyazev and M.M. Noskov  
Optical absorption spectra of lanthanum, praseodymium and neodymium  
Phys. Met. Metall. 36, 65 (1973)  
Fiz. Met. Metalloved. 36, 299 (1973)
- KN75 Y.V. Knyazev and M.M. Noskov  
Optical properties of terbium in the visible and infrared regions  
of the spectrum  
Opt. Spectrosc. 38, 672 (1975)  
Opt. Spektrosk. 38, 1164 (1975)
- KN77 Y.V. Knyazev and M.M. Noskov  
The optical properties of rare earth metals  
Phys. Stat. Sol. B 80, 11 (1977)
- KnN71 Y.V. Knyazev and M.M. Noskov  
Optical properties of gadolinium in the infra-red range of the  
spectrum  
Phys. Met. Metall. 32, 70 (1971)  
Fiz. Met. Metalloved. 32, 1189 (1971)
- KnN73 Y.V. Knyazev and M.M. Noskov  
Optical properties of dysprosium in the 1-20  $\mu\text{m}$  wave band  
Phys. Met. Metall. 35, 26 (1973)  
Fiz. Met. Metalloved. 35, 478 (1973)
- Kny77 Y.V. Knyazev  
Optical properties of thulium in the 0.06-4.9 eV energy range  
Opt. Spectrosc. 43, 424 (1977)  
Opt. Spektrosk. 43, 718 (1977)
- KT75 J. Krizek and K.N.R. Taylor  
Optical properties of rare earth films in paramagnetic and  
magnetically ordered phases  
J. Phys. F: Metal Phys. 5, 774 (1975)
- Kun66 C. Kunz  
Messung charakteristischer Energieverluste von Elektronen an  
Leichtoxydierbaren Metallen im Ultrahochvakuum  
Z. Physik 196, 311 (1966)

BIBLIOGRAPHY (cont'd)

- Kun75 C. Kunz  
Soft x-ray excitation of core electrons in metals and alloys  
Optical Properties of Solids - New Developments  
ed. by B.O. Seraphin (North-Holland, Amsterdam, 1975) p. 473
- Li72 R.C. Linton  
The optical properties of platinum and gold in the vacuum ultraviolet  
NASA Technical Note D-7061, October 1972
- Liu77 S.H. Liu  
Electronic structure of rare earth metals  
Handbook on the Physics and Chemistry of the Rare Earths  
ed. by K.A. Gschneidner and L. Eyring (North Holland Publishing  
Co., Amsterdam, 1977) Chapter 3
- LM62 R. LaVilla and H. Mendlowitz  
Optical constants of aluminum in vacuum ultraviolet  
Phys. Rev. Lett. 9, 169 (1971)
- LMM71 H.G. Liljenvall, A.G. Mathewson and H.P. Myers  
The temperature dependence of the optical constants of aluminium  
Solid State Comm. 9, 169 (1971)
- LSE64 A.P. Lukirskii, E.P. Savinov, O.A. Ershov, and Yu. F. Shepelev  
Reflection coefficients of radiation in the wavelength range from  
23.6 to 113 Å for a number of elements and substances and the  
determination of the refractive index and absorption coefficient  
Opt. Spectrosc. 16, 168 (1964)  
Opt. Spektrosk. 16, 310 (1964)
- LT65 A.P. Lenham and D.M. Treherne  
The optical constants of aluminum and indium  
Proc. Phys. Soc. 85, 167 (1965)
- LT66 A.P. Lenham and D.M. Treherne  
Optical constants of single crystals of Mg, Zn, Cd, Al, Ga, In,  
and white Sn  
J. Opt. Soc. Am. 56, 752 (1966)
- LTA66 A.P. Lenham and D.M. Treherne  
Optical Properties and Electronic Structure of Metals and Alloys  
ed. by F. Abelès (North-Holland Publishing Co., Amsterdam, 1966)  
p. 196
- Lyn78 D.W. Lynch  
Optical properties of rare earth metals  
The Rare Earths in Modern Science and Technology, ed. by G.J. McCarthy  
and J.J. Rhyne (Plenum Publishing Corporation, New York, 1978)  
p. 461

BIBLIOGRAPHY (cont'd)

- MaM72 A.G. Mathewson and H.P. Myers  
Optical absorption in aluminum and the effect of temperature.  
J. Phys. F: Metal Phys. 2, 403 (1972)
- MC61 R.P. Madden and L.R. Canfield  
Apparatus for the measurement of vacuum ultraviolet optical  
properties of freshly evaporated films before exposure to air  
J. Opt. Soc. Am. 51, 838 (1961)
- MCH63 R.P. Madden, L.R. Canfield, and G. Hass  
On the vacuum-ultraviolet reflectance of evaporated aluminum  
before and during oxidation  
J. Opt. Soc. Am. 53, 620 (1963)
- MFK67 E. Meyer, H. Frede, and H. Knof  
Optical effects in metals: Application of a least-squares method  
to measurements on gold and silver  
J. Appl. Phys. 38, 3682 (1967)
- MHS77 T.A. McMath, R.A.D. Hewko, O. Singh, A.E. Curzon, and J.C. Irwin  
Optical constants of gold by transmission interferometry  
J. Opt. Soc. Am. 67, 630 (1977)
- MJT74 R.F. Miller, L.S. Julien, and A.J. Taylor  
Optical constants of gadolinium and terbium films obtained from  
in situ measurements in ultra high vacuum  
J. Phys. F: Metal Phys. 4, 2338 (1974)
- MM71 A.G. Mathewson and H.P. Myers  
Absolute values of the optical constants of some pure metals  
Phys. Scripta 4, 291 (1971)
- Mot69 G.P. Motulevich  
Optical properties of polyvalent non-transition metals  
Sov. Phys. Uspekhi. 12, 80 (1969)  
Usp. Fiz. Nank. 97, 211 (1969)
- MPF77 N. Ahmed Mokhtar, J.P. Pétrakian, and R. Fraise  
Détermination des paramètres optiques du gadolinium obtenus à  
partir de mesures des facteurs de réflexion  
C.R. Acad. Sc. Paris. 285, 159 (1977)
- MR76 J.A. MacKay and J.A. Rayne  
Temperature dependence of the infrared absorptivity of the noble  
metals  
Phys. Rev. B 13, 673 (1976)
- MSB72 C.M. Moscovitz, L.A. Stretz, and R.G. Bautista  
The spectral emissivities of lanthanum, cerium, and praseodymium  
High Temp. Sci. 4, 372 (1972)

BIBLIOGRAPHY (cont'd)

- Mu165 W.E. Müller  
Optical properties of divalent rare-earth metals and alkaline-earth metals  
Phys. Lett. 17, 82 (1965)
- Mu166 W.E. Müller  
Optical properties of europium and barium  
Solid State Comm. 4, 581 (1966)
- Mu167 W.E. Müller  
Optische Eigenschaften und Elektronenbandstruktur von Europium und Barium  
Phys. Kondens. Materie 6, 141 (1976)
- Nil Pvt P.O. Nilsson  
Private communication
- NSW76 J. Naegele, J.Ç. Spirlet, H. Winkelmann  
Optical reflectivity of americium metal  
Presented at the 2nd VUV Conference on the Electronic Structure of the Actinides, Warsaw, Poland (1976)
- OBr36 H.M. O'Bryan  
The optical constants of several metals in vacuum  
J. Opt. Soc. Am. 26, 122 (1936)
- OL81 C.G. Olson and D.W. Lynch  
Rare earth 4d absorption spectra in rare earth trifluorides  
J. Opt. Soc. Am. (in press)
- OTM80 J. Onsgaard, S. Tougaard, P. Morgan, and F. Ryborg  
Scandium and lutetium surfaces studied by reflection electron energy-loss spectroscopy  
J. Electron Spect. and Related Phenomena 18, 29 (1980)
- Ott61 M. Otter  
Optische Konstanten massiver Metalle  
Z. Physik 161, 163 (1961)
- PD78 J.P. Pétrakian and G. Derbez  
Optical properties of europium thin films  
Thin Solid Films 51, 155 (1978)
- Pet69 J.P. Pétrakian  
Étude des propriétés optiques de couches minces d'yttrium sous ultra-vide statique  
C. R. Acad. Sci. Paris 270, 1000 (1970)

BIBLIOGRAPHY (cont'd)

- Pet70 J.P. Pétrakian  
Sur un phénomène d'absorption anormale se produisant dans des couches minces de terbium  
C.R. Acad. Sc. Paris B270, 624 (1970)
- Pet72 J.P. Pétrakian  
Direct transitions at optical frequencies in rare-earth metals  
J. Opt. Soc. Am. 62, 401 (1972)
- Petr72 J.P. Pétrakian  
New investigation of the optical absorption of rare-earth thin films  
Thin Solid Films 13, 269 (1972)
- Pet74 J.P. Pétrakian  
Conductivité et transitions optiques dans des couches minces d'ytterbium  
Thin Solid Films 20, 297 (1974)
- Pet76 J.P. Pétrakian  
Optical conductivity of rare earth thin films in relation to their crystalline structure and electronic configuration  
Thin Solid Films 38, 83 (1976)
- PMF77 J.P. Pétrakian, N. Ahmed Mokhtar, and R. Fraisse  
Optical constants of gadolinium at various temperatures from polarimetric measurements  
J. Phys. F: Metal Phys. 1, 2431 (1977)
- PP69 J.P. Pétrakian and J.P. Palmari  
Réalisation d'une enceinte pour l'étude de couches minces métalliques sous ultra-vide statique  
Thin Solid Films 4, 423 (1969)
- PPR70 J.P. Pétrakian, J.P. Palmari, and G. Rassigni  
Les propriétés optiques de couches minces d'yttrium sous ultravide statique  
Appl. Optics 9, 2115 (1970)
- PS69 G.P. Pells and M. Shiga  
The optical properties of copper and gold as a function of temperature  
J. Phys. C: Solid State Phys. 2, 1835 (1969)
- QLJ81 A. Quemarais, B. Loisel, G. Jezequel, J. Thomas, and J.C. Lemonnier  
Optical spectra of gadolinium and dysprosium: Study of the 5p thresholds  
J. Phys. F 11, 293 (1981) and B. Loisel, private communication.

BIBLIOGRAPHY (cont'd)

- Ro66 S. Robin  
Propriétés optiques de l'argent et du palladium dans l'ultraviolet  
Jointain  
Optical Properties and Electronic Structure of Metals and Alloys  
ed. by F. Abelès (North Holland Publishing Co., Amsterdam, 1966)  
p. 202
- RT75 J. Rivory and M.L. Theye  
Optical properties of Ag-Cu alloys: Evidence for d-virtual bound  
states on Cu impurities  
J. Physique 36, L129 (1975)
- RYE77 K.G. Ramanathan, S.H. Yen, and E.A. Estalote  
Total hemispherical emissivities of copper, aluminum, and silver  
Appl. Optics 16, 2810 (1977)
- Sa39 G.B. Sabine  
Reflectivities of evaporated metal films in the near and far  
ultraviolet  
Phys. Rev. 55, 1064 (1939)
- SB64 J.E. Shaw and W.R. Blevin  
Instrument for the absolute measurement of direct spectral  
reflectances at normal incidence  
J. Opt. Soc. Am. 54, 334 (1964)
- Sc54 L.G. Schulz  
An experimental confirmation of the Drude free electron theory  
of the optical properties of metals for silver, gold, and copper  
in the near infrared  
J. Opt. Soc. Am. 44, 540 (1954)
- Sch54 L.G. Schulz  
The optical constants of silver, gold, copper, and aluminum  
I. The absorption coefficient k  
J. Opt. Soc. Am. 44, 357 (1954)
- Sch57 L.G. Schulz  
The experimental study of the optical properties of metals and  
the relation of the results to the Drude free electron theory  
Adv. Phys. 6, 102 (1957)
- Sch66 C. Chr. Schüler  
Recent studies on the optical properties of rare earth metals  
Optical Properties and Electronic Structure of Metals and Alloys  
ed. by F. Abelès (North Holland Publishing Co., Amsterdam, 1966)  
p. 221

BIBLIOGRAPHY (cont'd)

- Sch72 M. Schlüter  
Die Optischen Eigenschaften von Gold, Silber und Gold-Silber-Legierungen zwischen 2 und 40 eV aus Energieverlustmessungen  
Z. Physik 250, 87 (1972)
- Sco67 W.J. Scouler  
Temperature-modulated reflectance of gold from 2 to 10 eV  
Phys. Rev. Lett. 18, 445 (1967)
- SeS70 D.H. Seib and W.E. Spicer  
Photoemission and optical studies of Cu-Ni alloys. I. Cu-rich Alloys  
Phys. Rev. B 2, 1676 (1970)
- SG64 W.T. Spencer and M.P. Givens  
Ultrahigh-vacuum measurement of the optical properties of copper  
J. Opt. Soc. Am. 54, 1337 (1964)
- SIS75 S. Suzuki, T. Ishii, and T. Sagawa  
4d-shell photoabsorption spectra of lanthanum - and cerium - halides  
J. Phys. Soc. Japan 38, 156 (1975)
- SJ79 M.L. Scott and G.T. Johnston  
Calorimetric measurement of absorption vs. temperature in a gold film  
Appl. Optics 18, 2905 (1979)
- Sm77 T. Smith  
Optical constants of copper and nickel  
J. Opt. Soc. Am. 67, 48 (1977)
- SN72 I.I. Sasovskaya and M.M. Noskov  
Optical properties of copper-nickel alloys in the visible and ultraviolet regions of the spectrum  
Sov. Phys. Solid State 14, 857 (1972)  
Fiz. Tverd. Tela. 14, 999 (1972)
- SS80 E. Shiles, T. Sasaki, M. Inokuti, and D.Y. Smith  
Self-consistency and sum-rules tests in the Kramers-Kronig analysis of optical data: Application to aluminum  
Phys. Rev. B 22, 1612 (1980)
- ST54 L.G. Schulz and F.R. Tangherlini  
Optical constants of silver, gold, copper, and aluminum.  
II. The index of refraction n  
J. Opt. Soc. Am. 44, 362 (1954)
- TC73 P. Trebbia and C. Collie  
Study of the excitation of 4d electrons in rare earth metals by inelastic scattering of a high energy electron beam  
Phys. Stat. Sol. B 58, 523 (1973)

BIBLIOGRAPHY (cont'd)

- TH70 M.L. Thèye  
Investigation of the optical properties of Au by means of thin semitransparent films  
Phys. Rev. B 2, 3060 (1970)
- Th Pvt M.L. Thèye  
Private communication
- TP51 D.H. Tombouljian and E.M. Pell  
Absorption by aluminum in the soft x-ray region  
Phys. Rev. 83, 1196 (1951)
- Tra77 D.H. Tracy  
Photoabsorption structure in lanthanides: 5p subshell spectra of Sm I, Eu I, Dy I, Ho I, Er I, Tm I, and Yb I  
Proc. R. Soc. London A 357, 485 (1977)
- TRZ72 E.V. Tsveiman, V.S. Red'kin, V.V. Zashkvara, and M.I. Korsunskii  
Spectra of characteristic electron-energy losses in gadolinium and dysprosium  
Sov. Phys. Solid State 13, 2339 (1972)  
Fiz. Tverd. Tela 13, 2793 (1971)
- VKF73 B.W. Veal, D.D. Koelling, and A.J. Freeman  
Observation of itinerant 5f states in thorium metal  
Phys. Rev. Lett. 30, 1061 (1973)
- WBR76 H.W. Wolff, R. Bruhn, K. Radler, and B. Sonntag  
Atomic character of the 4d absorption of Ce metal: An experimental proof  
Phys. Lett. 59A, 67 (1976)
- Wea80 J.H. Weaver  
Low energy optical absorption in  $\alpha$ -U metal  
J. Opt. Soc. Am. 70, 1030 (1980)
- WeG74 C. Wehenkel and B. Gauthé  
Optical absorption coefficient of nickel, palladium, platinum, copper, silver, gold between 20 and 120 eV  
Optics Comm. 11, 62 (1974)
- We077 J.H. Weaver and C.G. Olson  
Optical examination of the electronic structure of single-crystal hcp scandium  
Phys. Rev. B 16, 731 (1977)
- We0177 J.H. Weaver and C.G. Olson  
Interband structure and the role of the 5f electronic states of thorium: An optical investigation  
Phys. Rev. B 15, 4602 (1977)



BIBLIOGRAPHY (cont'd)

- We Unpub J.H. Weaver  
Unpublished
- Wes63 P.R. Wessel  
Reflectivity of silver-gold alloys in the spectral region 1.8-5.0 eV  
Phys. Rev. 132, 2062 (1963)
- WG74 C. Wehenkel and B. Gauthé  
Optical constants of metals in the vacuum UV spectral region  
determined by energy loss analysis of fast electrons scattered  
around the forward direction  
Proceedings of the VI International Conference on Vacuum Ultraviolet  
Physics, Hamburg, ed. by E.E. Koch, R. Haensel, and C. Kunz  
(Pergamon Vieweg, 1974) p. 455
- WKL76 P. Winsemius, F.F. van Kampen, H.P. Lengkeek, and C.G. van Went  
Temperature dependence of the optical properties of Au, Ag, and Cu  
J. Phys. F: Metal Phys. 6, 1583 (1976)
- WL73 J.H. Weaver and D.W. Lynch  
Absorptivity of single-crystal yttrium at 4.2 K  
Phys. Rev. B 7, 4737 (1973)
- WL75 J.H. Weaver and D.W. Lynch  
Anisotropic optical properties of heavy-rare-earth single crystals  
Phys. Rev. Lett. 34, 1324 (1975)
- W076 J.H. Weaver and C.G. Olson  
Optical absorption in the 4d transition metals from 20 to 250 eV  
Phys. Rev. B 14, 3251 (1976)
- W077 J.H. Weaver and C.G. Olson  
Optical absorption of hcp yttrium  
Phys. Rev. B 15, 590 (1977)
- W0177 J.H. Weaver and C.G. Olson  
Soft x-ray absorption studies of thorium 5d-5f structures in  
thorium and thorium compounds  
Proc. V Int. Conf. Vac. Ultraviolet Rad. Phys., Montpellier,  
France (1977)
- YS65 R.G. Yarovaya and I.N. Shklyarevskii  
Investigation of quantum absorption in silver  
Opt. Spectrosc. 18, 465 (1965)  
Opt. Spektrosk. 18, 832 (1964)
- ZFG67 T.M. Zimkina, V.A. Fomichev, S.A. Gribovskii, and T.I. Zhukova  
Anomalies in the character of the x-ray absorption of rare earth  
elements of the lanthanide group  
Sov. Phys. Solid State 9, 1128 (1967)  
Fiz. Tverd. Tela. 9, 1447 (1967)

BIBLIOGRAPHY (cont'd)

- ZTK72 V.V. Zashkvara, E.V. Tsveiman, M.I. Korsunskii, and V.S. Red'kin  
Characteristic energy loss spectra of electrons reflected from  
La, Ce, Pr, and Nd surfaces  
Sov. Phys. Solid State 14, 1564 (1972)  
Fiz. Tverd. Tela. 14, 1812 (1972)