

# Sergio Rodriguez

## List of Publications by Year in descending order

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40  
papers

1,151  
citations

361388

20  
h-index

377849

34  
g-index

42  
all docs

42  
docs citations

42  
times ranked

236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrodynamic Properties of a Quantum Plasma in a Uniform Magnetic Field. Physical Review, 1962, 128, 2487-2493.	2.7	107
2	Linear Response Theory for a Degenerate Electron Gas in a Strong Magnetic Field. Physical Review, 1969, 177, 1019-1036.	2.7	84
3	Group-Theoretical Study of the Zeeman Effect of Acceptors in Silicon and Germanium. Physical Review B, 1972, 6, 3836-3856.	3.2	78
4	High frequency dielectric response of dipolar liquids. Journal of Chemical Physics, 1973, 59, 5992-6008.	3.0	78
5	Spectroscopic Study of the Symmetries and Deformation-Potential Constants of Singly Ionized Zinc in Germanium. Theory. Physical Review B, 1972, 5, 2219-2233.	3.2	72
6	Modification of the Velocity of Sound in Metals by an Applied Magnetic Field. Physical Review, 1963, 130, 1778-1783.	2.7	64
7	Piezospectroscopic Study of the Raman Spectrum of $\alpha$ -Quartz. Physical Review B, 1973, 8, 706-717.	3.2	58
8	Helicon-Phonon Interaction in Metals. Physical Review, 1964, 133, A1589-A1594.	2.7	56
9	Helicon Propagation in Metals near the Cyclotron Edge. Physical Review, 1966, 141, 431-436.	2.7	51
10	Resonant interaction of acceptor states with optical phonons in silicon. Physical Review B, 1976, 14, 2417-2421.	3.2	34
11	Ionized Impurity Scattering in Degenerate Many-Valley Semiconductors. Physical Review, 1964, 135, A779-A784.	2.7	32
12	Magnetic Field Dependence of Ultrasonic Attenuation in Metals at Low Temperatures. Physical Review, 1958, 112, 80-89.	2.7	31
13	Helicon-Phonon Interaction in Metals. Physical Review Letters, 1963, 11, 552-554.	7.8	30
14	Effects of Resonant Phonon Interactions on Shapes of Impurity Absorption Lines. Physical Review, 1969, 178, 1252-1263.	2.7	28
15	Theory of Cyclotron Resonance in Metals. Physical Review, 1958, 112, 1616-1620.	2.7	25
16	Spectroscopic Study of the Symmetries and Deformation-Potential Constants of Singly Ionized Zinc in Germanium. Experiment. Physical Review B, 1973, 7, 5285-5298.	3.2	25
17	Magnetic anisotropy of cubic iron-based diluted magnetic semiconductors. Physical Review B, 1991, 43, 3443-3449.	3.2	25
18	Stress-induced mixing of the spin-orbit-split acceptor states of silicon. Physical Review B, 1975, 12, 5780-5789.	3.2	24

#	ARTICLE	IF	CITATIONS
19	Magnetic-Field Dependence of the Velocity of Sound in Metals. <i>Physical Review Letters</i> , 1962, 9, 145-147.	7.8	21
20	Oscillations of the Velocity of Sound in Metals in a Magnetic Field. <i>Physical Review</i> , 1963, 132, 535-541.	2.7	21
21	Group-Theoretical Study of Double Acceptors in Semiconductors under Uniaxial Stress. <i>Physical Review B</i> , 1973, 8, 1556-1570.	3.2	20
22	Quantum Effects in Ultrasonic Attenuation in Metals in a Magnetic Field. <i>Physical Review</i> , 1962, 128, 2494-2496.	2.7	19
23	Giant Quantum Oscillations of the Attenuation of Transverse Acoustic Waves in a Longitudinal Magnetic Field in Metals. <i>Physical Review Letters</i> , 1964, 12, 104-106.	7.8	18
24	Piezospectroscopy of Raman lines exhibiting linear wave-vector dependence: $\hat{\Gamma}_\pm$ -quartz. <i>Physical Review B</i> , 1977, 15, 5869-5876.	3.2	17
25	Temperature Dependence of the Electrical Resistivity in n-Type GaSb. <i>Physical Review</i> , 1965, 137, A663-A666.	2.7	16
26	Collective Excitations of Dipolar Systems. <i>Physical Review</i> , 1967, 161, 513-525.	2.7	14
27	Magnetic properties of iron-based diluted magnetic semiconductors. <i>Solid State Communications</i> , 1990, 75, 21-24.	1.9	13
28	Near-infrared transitions in iron-based diluted magnetic semiconductors: Effect of strong electron-phonon coupling. <i>Physical Review B</i> , 1994, 49, 2408-2417.	3.2	13
29	Van Vleck paramagnetism of chromium- and iron-doped II-VI semiconductors. <i>Physical Review B</i> , 1993, 48, 14127-14134.	3.2	12
30	Propagation of Transverse Acoustic Waves in a Spin-Density-Wave Metal. <i>Physical Review Letters</i> , 1965, 14, 981-983.	7.8	10
31	Attenuation of Transverse Ultrasound in Copper. <i>Physical Review</i> , 1967, 157, 500-510.	2.7	9
32	Residual surface resistance of superconductors at microwave frequencies. <i>Applied Physics Letters</i> , 1974, 24, 338-340.	3.3	9
33	Acoustic Kjeldaa Edge in Potassium. <i>Physical Review</i> , 1966, 148, 632-636.	2.7	8
34	Anisotropy of the magnetization of $\text{Cd}_{1-x}\text{Fe}_x\text{Te}$ . <i>Physical Review B</i> , 1991, 44, 399-402.	3.2	7
35	Zeeman effect of the energy levels of $\text{Fe}^{2+}$ in diluted magnetic semiconductors. <i>Physical Review B</i> , 1993, 47, 1228-1236.	3.2	7
36	Influence of the Spin of the Electron on the Quantum Magnetoacoustic Effect in Metals. <i>Physical Review</i> , 1963, 130, 929-931.	2.7	5

#	ARTICLE	IF	CITATIONS
37	Magnetic Anisotropy of Cubic Iron-Based Diluted Magnetic Semiconductors. <i>Physica Scripta</i> , 1991, T39, 131-134.	2.5	4
38	Anisotropy of the magnetization of isolated Fe <sup>2+</sup> ions in II-VI compounds. <i>Solid State Communications</i> , 1992, 84, 635-637.	1.9	3
39	Anomalous surface resistance of superconductors at finite temperature. <i>Journal of Applied Physics</i> , 1976, 47, 3651-3655.	2.5	2
40	Determination of the Cyclotron Effective Mass for Nonextremal Orbits in Metals. <i>Physical Review</i> , 1965, 137, A1400-A1403.	2.7	1