List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The role of interface states and series resistance on the l–V and C–V characteristics in Al/SnO2/p-Si Schottky diodes. Solid-State Electronics, 2003, 47, 1847-1854.	0.8	192
2	Characterization of current–voltage (l–V) and capacitance–voltage–frequency (C–V–f) features of Al/SiO2/p-Si (MIS) Schottky diodes. Microelectronic Engineering, 2006, 83, 582-588.	1.1	114
3	Frequency and voltage effects on the dielectric properties and electrical conductivity of Al–TiW–Pd2Si/n-Si structures. Microelectronic Engineering, 2008, 85, 247-252.	1.1	106
4	The analysis of the series resistance and interface states of MIS Schottky diodes at high temperatures using l–V characteristics. Journal of Alloys and Compounds, 2009, 484, 405-409.	2.8	93
5	The effect of interface states, excess capacitance and series resistance in the Al/SiO2/p-Si Schottky diodes. Applied Surface Science, 2005, 252, 1732-1738.	3.1	80
6	Density of interface states, excess capacitance and series resistance in the metal–insulator–semiconductor (MIS) solar cells. Solar Energy Materials and Solar Cells, 2005, 85, 345-358.	3.0	79
7	Analysis of electrical characteristics of Au/SiO2/n-Si (MOS) capacitors using the high–low frequency capacitance and conductance methods. Microelectronic Engineering, 2008, 85, 2256-2260.	1.1	78
8	On the profile of frequency dependent series resistance and surface states in Au/Bi4Ti3O12/SiO2/n-Si(MFIS) structures. Microelectronic Engineering, 2008, 85, 81-88.	1.1	74
9	On the conduction mechanisms of Au/(Cu2O–CuO–PVA)/n-Si (MPS) Schottky barrier diodes (SBDs) using current–voltage–temperature (l–V–T) characteristics. Journal of Materials Science: Materials in Electronics, 2018, 29, 159-170.	1.1	73
10	On the energy distribution of interface states and their relaxation time and capture cross section profiles in Al/SiO2/p-Si (MIS) Schottky diodes. Microelectronic Engineering, 2008, 85, 1495-1501.	1.1	68
11	On the profile of frequency dependent series resistance and dielectric constant in MIS structure. Microelectronic Engineering, 2007, 84, 180-186.	1.1	67
12	The distribution of barrier heights in MIS type Schottky diodes from current–voltage–temperature (l–V–T) measurements. Journal of Alloys and Compounds, 2009, 479, 893-897.	2.8	67
13	Electrical and dielectric properties of MIS Schottky diodes at low temperatures. Microelectronic Engineering, 2006, 83, 2551-2557.	1.1	61
14	Analysis of interface states and series resistance of MIS Schottky diodes using the current–voltage (l–V) characteristics. Microelectronic Engineering, 2008, 85, 233-237.	1.1	61
15	Photodiode and photocapacitor properties of Au/CdTe/p-Si/Al device. Journal of Alloys and Compounds, 2015, 646, 1151-1156.	2.8	59
16	Analysis of surface states and series resistance in Au/n-Si Schottky diodes with insulator layer using current–voltage and admittance–voltage characteristics. Vacuum, 2009, 84, 363-368.	1.6	55
17	Dielectric properties and ac electrical conductivity studies of MIS type Schottky diodes at high temperatures. Microelectronic Engineering, 2008, 85, 1518-1523.	1.1	52
18	The C–V–f and G/ï‰â€"V–f characteristics of Al/SiO2/p-Si (MIS) structures. Microelectronic Engineering, 2006, 83, 2021-2026.	1.1	49

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19	The Richardson constant and barrier inhomogeneity at Au/Si ₃ N ₄ /n-Si (MIS) Schottky diodes. Physica Scripta, 2013, 88, 015801.	1.2	47
20	Frequency and voltage dependence of dielectric properties, complex electric modulus, and electrical conductivity in Au/7% graphene dopedâ€₽VA/n‣i (MPS) structures. Journal of Applied Polymer Science, 2016, 133, .	1.3	47
21	Influence of Temperature and Frequency on Dielectric Permittivity and ac Conductivity of Au/SnO ₂ /n-Si (MOS) Structures. Chinese Physics Letters, 2012, 29, 077304.	1.3	46
22	Single crystal ruthenium(II) complex dye based photodiode. Dyes and Pigments, 2016, 132, 64-71.	2.0	46
23	Comparison of electrical properties of MS and MPS type diode in respect of (In2O3-PVP) interlayer. Physica B: Condensed Matter, 2020, 576, 411733.	1.3	46
24	A novel type heterojunction photodiodes formed junctions of Au/LiZnSnO and LiZnSnO/p-Si in series. Journal of Alloys and Compounds, 2015, 625, 18-25.	2.8	44
25	Au/SnO2/n-Si (MOS) structures response to radiation and frequency. Microelectronics Journal, 2003, 34, 1043-1049.	1.1	43
26	The barrier height distribution in identically prepared Al/p-Si Schottky diodes with the native interfacial insulator layer (SiO2). Physica B: Condensed Matter, 2007, 399, 146-154.	1.3	41
27	Comparative study of the electrical properties of Au/n-Si (MS) and Au/Si ₃ N ₄ /n-Si (MIS) Schottky diodes. Chinese Physics B, 2013, 22, 068402.	0.7	41
28	Electrical and impedance properties of MPS structure based on (Cu2O–CuO–PVA) interfacial layer. Journal of Materials Science: Materials in Electronics, 2018, 29, 8234-8243.	1.1	41
29	On the temperature dependent dielectric properties, conductivity and resistivity of MIS structures at 1MHz. Microelectronic Engineering, 2012, 91, 154-158.	1.1	40
30	Analysis of the series resistance and interface states of Au/Si ₃ N ₄ /n-Si (metal–insulator–semiconductor) Schottky diodes using <i>I</i> – <i>V</i> characteristics in a wide temperature range. Physica Scripta, 2012, 86, 035802.	1.2	39
31	Photoresponse and photocapacitor properties of Au/AZO/p-Si/Al diode with AZO film prepared by pulsed laser deposition (PLD) method. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	37
32	60Co γ irradiation effects on the current–voltage (l–V) characteristics of Al/SiO2/p-Si (MIS) Schottky diodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 863-868.	0.7	36
33	Electrical characteristics of 60Co γ-ray irradiated MIS Schottky diodes. Nuclear Instruments & Methods in Physics Research B, 2006, 252, 257-262.	0.6	36
34	Analysis of interface states in Au/ZnO/p-InP (MOS) structure. Journal of Materials Science: Materials in Electronics, 2018, 29, 12553-12560.	1.1	36
35	Dielectric, modulus and conductivity studies of Au/PVP/n-Si (MPS) structure in the wide range of frequency and voltage at room temperature. Journal of Materials Science: Materials in Electronics, 2019, 30, 6853-6859.	1.1	36
36	Study on the frequency dependence of electrical and dielectric characteristics of Au/SnO2/n-Si (MIS) structures. Microelectronic Engineering, 2008, 85, 1866-1871.	1.1	35

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37	Characterization of interface states at Au/SnO2/n-Si (MOS) structures. Vacuum, 2008, 82, 1203-1207.	1.6	35
38	A new shape memory alloy film/p-Si solar light four quadrant detector for solar tracking applications. Journal of Alloys and Compounds, 2016, 688, 762-768.	2.8	35
39	Ruthenium(II) Complex Based Photodiode for Organic Electronic Applications. Journal of Electronic Materials, 2018, 47, 828-833.	1.0	35
40	A comparative study on the electrical and dielectric properties of Al/Cd-doped ZnO/p-Si structures. Journal of Materials Science: Materials in Electronics, 2019, 30, 12122-12129.	1.1	35
41	Frequency-Dependent Dielectric Parameters of Au/TiO2/n-Si (MIS) Structure. Silicon, 2018, 10, 2071-2077.	1.8	33
42	C-V-f and G/ï‰-V-f characteristics of Au/(In2O3-PVP)/n-Si (MPS) structure. Physica B: Condensed Matter, 2020, 582, 411996.	1.3	33
43	Ferroelectric Bi3.25La0.75Ti3O12 photodiode for solar cell applications. Solar Energy Materials and Solar Cells, 2015, 133, 69-75.	3.0	31
44	Graphene–cobalt phthalocyanine based on optoelectronic device for solar panel tracking systems. Synthetic Metals, 2015, 206, 15-23.	2.1	30
45	Determination of interface states and their time constant for Au/SnO ₂ /n-Si (MOS) capacitors using admittance measurements. Chinese Physics B, 2013, 22, 047303.	0.7	29
46	The density of interface states and their relaxation times in Au/Bi ₄ Ti ₃ O ₁₂ /SiO ₂ /nâ€&i(MFIS) structures. Surface and Interface Analysis, 2011, 43, 1561-1565.	0.8	27
47	Forward and reverse bias current–voltage (l–V) characteristics in the metal–ferroelectric–semiconductor (Au/SrTiO3/n-Si) structures at room temperature. Journal of Materials Science: Materials in Electronics, 2018, 29, 16740-16746.	1.1	27
48	Photoresponse characteristics of Au/(CoFe2O4-PVP)/n-Si/Au (MPS) diode. Journal of Materials Science: Materials in Electronics, 2021, 32, 15732-15739.	1.1	27
49	Analysis of interface states of FeO-Al2O3 spinel composite film/p-Si diode by conductance technique. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	26
50	Boron doped graphene based linear dynamic range photodiode. Physica B: Condensed Matter, 2018, 545, 86-93.	1.3	25
51	Frequency dependence of the dielectric properties of Au/(NG:PVP)/n-Si structures. Journal of Materials Science: Materials in Electronics, 2021, 32, 7657-7670.	1.1	25
52	Electronic and optoelectronic properties of Al/coumarin doped Pr2Se3–Tl2Se/p-Si devices. Journal of Materials Science: Materials in Electronics, 2018, 29, 12561-12572.	1.1	24
53	The effect of 60Co (γ-ray) irradiation on the electrical characteristics of Au/SnO2/n-Si (MIS) structures. Radiation Physics and Chemistry, 2008, 77, 74-78.	1.4	23
54	AÂCompareÂStudy on Electrical Properties of MS Diodes with and Without CoFe2O4-PVP Interlayer. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1668-1675.	1.9	23

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55	Electrical and photoresponse properties of CoSO4-PVP interlayer based MPS diodes. Journal of Materials Science: Materials in Electronics, 2020, 31, 11665-11672.	1.1	22
56	The temperature profile and bias dependent series resistance of Au/Bi4Ti3O12/SiO2/n-Si (MFIS) structures. Vacuum, 2008, 82, 1246-1250.	1.6	21
57	Complex dielectric permittivity, electric modulus and electrical conductivity analysis of Au/Si3N4/p-GaAs (MOS) capacitor. Journal of Materials Science: Materials in Electronics, 2021, 32, 11418-11425.	1.1	21
58	A photodiode based on PbS nanocrystallites for FYTRONIX solar panel automatic tracking controller. Physica B: Condensed Matter, 2017, 527, 44-51.	1.3	19
59	Double-exponential current–voltage (l–V) and negative capacitance (NC) behavior of Al/(CdSe-PVA)/p-Si/Al (MPS) structure. Journal of Materials Science: Materials in Electronics, 2019, 30, 9572-9581.	1.1	19
60	Electrical characterizationÂof Au/n-Si (MS) diode with and without graphene-polyvinylpyrrolidone (Gr-PVP) interface layer. Journal of Materials Science: Materials in Electronics, 2021, 32, 3451-3459.	1.1	19
61	Analysis of admittance measurements of Al/Gr-PVA/p-Si (MPS) structure. Journal of Physics and Chemistry of Solids, 2022, 169, 110861.	1.9	19
62	Temperature-dependent dielectric properties of Au/Si ₃ N ₄ /n-Si (metal—insulator—semiconductor) structures. Chinese Physics B, 2013, 22, 117310.	0.7	18
63	Photoconducting properties of Cd0.4ZnO0.6/p-Si photodiode by sol gel method. Journal of Electroceramics, 2014, 32, 369-375.	0.8	18
64	A functional material based photodiode for solar tracking systems. Physica B: Condensed Matter, 2017, 520, 76-81.	1.3	18
65	A shape memory alloy based on photodiode for optoelectronic applications. Journal of Alloys and Compounds, 2018, 743, 227-233.	2.8	18
66	Current–voltage analyses of Graphene-based structure onto Al2O3/p-Si using various methods. Vacuum, 2020, 181, 109654.	1.6	18
67	Electrical properties of Graphene/Silicon structure with Al2O3 interlayer. Journal of Materials Science: Materials in Electronics, 2020, 31, 9719-9725.	1.1	18
68	A systematic influence of Cu doping on structural and opto-electrical properties of fabricated Yb2O3 thin films for Al/Cu-Yb2O3/p-Si Schottky diode applications. Inorganic Chemistry Communication, 2021, 129, 108646.	1.8	18
69	Optical, Electrical and Photoresponse Properties of Si-based Diodes with NiO-doped TiO2 Film Prepared by Sol-gel Method. Silicon, 2018, 10, 913-920.	1.8	17
70	The role of 60Co γ-ray irradiation on the interface states and series resistance in MIS structures. Radiation Physics and Chemistry, 2010, 79, 457-461.	1.4	16
71	Thermal sensors based on delafossite film/p-silicon diode for low-temperature measurements. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	16
72	Frequency and electric field controllable photodevice: FYTRONIX device. Physica B: Condensed Matter, 2017, 519, 53-58.	1.3	16

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73	Structural, Electrical and Photoresponse Properties of Si-based Diode with Organic Interfacial Layer Containing Novel Cyclotriphosphazene Compound. Silicon, 2018, 10, 683-691.	1.8	16
74	Analysis of barrier inhomogeneities in AuGe/n-Ge Schottky diode. Indian Journal of Physics, 2018, 92, 1397-1402.	0.9	16
75	Analysis of interface states and series resistance at MIS structure irradiated under 60Co Î ³ -rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 1588-1593.	0.7	15
76	The effects of frequency and \hat{I}^3 -irradiation on the dielectric properties of MIS type Schottky diodes. Nuclear Instruments & Methods in Physics Research B, 2007, 254, 113-117.	0.6	15
77	The effect of thickness on the optical, structural and electrical properties of ZnO thin film deposited on n-type Si. Journal of Molecular Structure, 2018, 1165, 376-380.	1.8	15
78	Electrical characteristics analyses of zinc-oxide based MIS structure grown by atomic layer deposition. Materials Research Express, 2019, 6, 026309.	0.8	15
79	CuAlMnV shape memory alloy thin film based photosensitive diode. Materials Science in Semiconductor Processing, 2020, 107, 104858.	1.9	15
80	Electrical, kinetic and photoelectrical properties of CuAlMnMg shape memory alloy/n-Si Schottky diode. Journal of Alloys and Compounds, 2021, 888, 161600.	2.8	15
81	Dielectric properties in Au/SnO2/n-Si (MOS) structures irradiated under 60Co-Î ³ rays. Microelectronics Journal, 2004, 35, 731-738.	1.1	14
82	Effects of gamma irradiation on electrical parameters of metal–insulator–semiconductor structure with silicon nitride interfacial insulator layer. Radiation Effects and Defects in Solids, 2014, 169, 791-799.	0.4	14
83	Cu-Al-Mn shape memory alloy based Schottky diode formed on Si. Physica B: Condensed Matter, 2019, 560, 261-266.	1.3	14
84	Electrical characterization of silicon nitride interlayer-based MIS diode. Journal of Materials Science: Materials in Electronics, 2020, 31, 9888-9893.	1.1	14
85	Dielectric characteristics of gamma irradiated Au/SnO2/n-Si/Au (MOS) capacitor. Materials Science in Semiconductor Processing, 2014, 28, 89-93.	1.9	12
86	Composite metal oxide semiconductor based photodiodes for solar panel tracking applications. Journal of Alloys and Compounds, 2015, 650, 692-699.	2.8	12
87	Gamma-ray irradiation effects on the interface states of MIS structures. Sensors and Actuators A: Physical, 2009, 151, 168-172.	2.0	11
88	Electrical and photoconducting properties of nanorod in based spinel compound/p-Si photodiode by sol–gel spin coating technique. Journal of Sol-Gel Science and Technology, 2014, 71, 421-427.	1.1	11
89	Impedance spectroscopy of Au/TiO2/n-Si metal-insulator-semiconductor (MIS) capacitor. Physica B: Condensed Matter, 2020, 580, 411945.	1.3	11
90	The photo-electrical performance of the novel CuAlMnFe shape memory alloy film in the diode application. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114931.	1.7	10

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91	The interface states analysis of the MIS structure as a function of frequency. Microelectronic Engineering, 2008, 85, 542-547.	1.1	9
92	Irradiation effect on dielectric properties and electrical conductivity of Au/SiO2/n-Si (MOS) structures. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 73-78.	0.6	6
93	Metallo-Phthalocyanines Based Photocapacitors. Silicon, 2019, 11, 1275-1286.	1.8	6
94	Frequency dependent dielectric properties of atomic layer deposition grown zinc-oxide based MIS structure. Physica B: Condensed Matter, 2019, 568, 31-35.	1.3	6
95	Effects of temperature and frequency on capacitance and conductance characteristics of zinc-oxide based MIS-Structure. Physica B: Condensed Matter, 2020, 576, 411721.	1.3	6
96	Analysis of Electrical Characteristics of Metal-Oxide-Semiconductor Capacitor by Impedance Spectroscopy. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 515-519.	0.1	6
97	Effects of beta-ray irradiation on the C–V and G/ω–V characteristics of Au/SiO2/n-Si (MOS) structures. Nuclear Instruments & Methods in Physics Research B, 2007, 254, 273-277.	0.6	5
98	Electrical Properties of Dilute Nitride GaAsPN/GaPN MQW p–i–n Diode. Journal of Electronic Materials, 2017, 46, 4590-4595.	1.0	5
99	Electrical Properties of MOS Capacitor with TiO2/SiO2 Dielectric Layer. Silicon, 2020, 12, 2879-2883.	1.8	5
100	Investigation of structural, kinetics and electrical properties of CuAlMnZn shape memory alloy – p-type silicon Schottky diode. Sensors and Actuators A: Physical, 2021, 331, 112908.	2.0	5
101	Effects of Temperature on Dielectric Parameters of Metal-Oxide-Semiconductor Capacitor with Thermal Oxide Layer. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 675-679.	0.1	5
102	Ionizing radiation effects on Au/TiO2/n-Si metal–insulator-semiconductor (MIS) structure. Journal of Materials Science: Materials in Electronics, 2020, 31, 19846-19851.	1.1	4
103	Double-exponential current-voltage (I-V) behavior of bilayer graphene-based Schottky diode. Physica Scripta, 2021, 96, 125836.	1.2	2