Yap Wing Fen

List of Publications by Year
in descending order

107 papers	2,787 citations	168829 31 h-index	252626 46 g-index
107 all docs	107 docs citations	107 times ranked	1891 citing authors

#	Article	IF	Citations
1	Surface refractive index sensor based on titanium dioxide composite thin film for detection of cadmium ions. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110287.	2.5	12
2	Arsenic Detection Using Surface Plasmon Resonance Sensor With Hydrous Ferric Oxide Layer. Photonic Sensors, 2022, 12, 1.	2.5	4
3	Evaluation of Structural and Optical Properties of Graphene Oxide-Polyvinyl Alcohol Thin Film and Its Potential for Pesticide Detection Using an Optical Method. Photonics, 2022, 9, 300.	0.9	13
4	Direct and Sensitive Detection of Dopamine Using Carbon Quantum Dots Based Refractive Index Surface Plasmon Resonance Sensor. Nanomaterials, 2022, 12, 1799.	1.9	8
5	Enlightening the structural, elastic, and luminescence properties of transparent Zn2SiO4 glass-ceramic by precipitation of Gd2O3 as dopant. Optical Materials, 2022, 131, 112602.	1.7	2
6	Optical Property Analysis of Chitosan-Graphene Quantum Dots Thin Film and Dopamine Using Surface Plasmon Resonance Spectroscopy. Plasmonics, 2022, 17, 1985-1997.	1.8	8
7	A Review on Carbon Dots: Synthesis, Characterization and Its Application in Optical Sensor for Environmental Monitoring. Nanomaterials, 2022, 12, 2365.	1.9	21
8	Sustainable Production of Arecanut Husk Ash as Potential Silica Replacement for Synthesis of Silicate-Based Glass-Ceramics Materials. Materials, 2021, 14, 1141.	1.3	4
9	Synthesis and Characterization of ZnO-SiO2 Composite Using Oil Palm Empty Fruit Bunch as a Potential Silica Source. Molecules, 2021, 26, 1061.	1.7	8
10	X-ray Photoelectron Spectroscopy Analysis of Chitosanâ€“Graphene Oxide-Based Composite Thin Films for Potential Optical Sensing Applications. Polymers, 2021, 13, 478.	2.0	26
11	An Optical Sensor for Dengue Envelope Proteins Using Polyamidoamine Dendrimer Biopolymer-Based Nanocomposite Thin Film: Enhanced Sensitivity, Selectivity, and Recovery Studies. Polymers, 2021, 13, 762.	2.0	7
12	Cellulose and Vanadium Plasmonic Sensor to Measure Ni2+ Ions. Applied Sciences (Switzerland), 2021, 11, 2963.	1.3	6
13	Recent Advances on Detection of Insecticides Using Optical Sensors. Sensors, 2021, 21, 3856.	2.1	20
14	Glucose detection by gold modified carboxyl-functionalized graphene quantum dots-based surface plasmon resonance. Optik, 2021, 239, 166779.	1.4	15
15	Design and Optimization of Surface Plasmon Resonance Spectroscopy for Optical Constant Characterization and Potential Sensing Application: Theoretical and Experimental Approaches. Photonics, 2021, 8, 361.	0.9	13
16	Detection of mercury ion using surface plasmon resonance spectroscopy based on nanocrystalline cellulose/poly(3,4-ethylenedioxythiophene) thin film. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109728.	2.5	13
17	Exploration on Structural and Optical Properties of Nanocrystalline Cellulose/Poly(3,4-Ethylenedioxythiophene) Thin Film for Potential Plasmonic Sensing Application. Photonics, 2021, 8, 419.	0.9	4
18	A sensing approach for manganese ion detection by carbon dots nanocomposite thin film-based surface plasmon resonance sensor. Optik, 2021, 243, 167435.	1.4	10

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19	Recent advances of priority phenolic compounds detection using phenol oxidases-based electrochemical and optical sensors. Measurement: Journal of the International Measurement Confederation, 2021, 184, 109855.	2.5	19
20	Femtomolar detection of dopamine using surface plasmon resonance sensor based on chitosan/graphene quantum dots thin film. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 263, 120202.	2.0	33
21	Surface Plasmon Resonance Sensor to Detect n-Hexane in Palm Kernel Oil Using Polypyrrole Nanoparticles Reduced Graphene Oxide Layer. Journal of Sensors, 2021, 2021, 1-13.	0.6	6
22	Sensing Methods for Hazardous Phenolic Compounds Based on Graphene and Conducting Polymers-Based Materials. Chemosensors, 2021, 9, 291.	1.8	13
23	Addition of ZnO nanoparticles on waste rice husk as potential host material for red-emitting phosphor. Materials Science in Semiconductor Processing, 2020, 106, 104774.	1.9	12
24	Structural characterization and optical constants of p-toluene sulfonic acid doped polyaniline and its composites of chitosan and reduced graphene-oxide. Journal of Materials Research and Technology, 2020, 9, 1468-1476.	2.6	24
25	Cationically Modified Nanocrystalline Cellulose/Carboxyl-Functionalized Graphene Quantum Dots Nanocomposite Thin Film: Characterization and Potential Sensing Application. Crystals, 2020, 10, 875.	1.0	14
26	Dependence of the Optical Constant Parameters of p-Toluene Sulfonic Acid-Doped Polyaniline and Its Composites on Dispersion Solvents. Molecules, 2020, 25, 4414.	1.7	6
27	X-ray photoelectron study on gold/nanocrystalline cellulose-graphene oxide thin film as surface plasmon resonance active layer for metal ion detection. Thin Solid Films, 2020, 713, 138340.	0.8	12
28	Acetone Vapor-Sensing Properties of Chitosan-Polyethylene Glycol Using Surface Plasmon Resonance Technique. Polymers, 2020, 12, 2586.	2.0	7
29	Phase Transformation, Optical and Emission Performance of Zinc Silicate Glass-Ceramics Phosphor Derived from the ZnOâ€“B2O3â€“SLS Glass System. Applied Sciences (Switzerland), 2020, 10, 4940.	1.3	18
30	Highly sensitive surface plasmon resonance optical detection of ferric ion using CTAB/hydroxylated graphene quantum dots thin film. Journal of Applied Physics, 2020, 128, 083105.	1.1	22
31	Effects of Sintering Temperature Variation on Synthesis of Glass-Ceramic Phosphor Using Rice Husk Ash as Silica Source. Materials, 2020, 13, 5413.	1.3	11
32	A carbon dots based fluorescence sensing for the determination of Escherichia coli O157:H7. Measurement: Journal of the International Measurement Confederation, 2020, 160, 107845.	2.5	6
33	Investigating the Properties of Cetyltrimethylammonium Bromide/Hydroxylated Graphene Quantum Dots Thin Film for Potential Optical Detection of Heavy Metal Ions. Materials, 2020, 13, 2591.	1.3	24
34	Development of Biopolymer and Conducting Polymer-Based Optical Sensors for Heavy Metal Ion Detection. Molecules, 2020, 25, 2548.	1.7	46
35	The Principle of Nanomaterials Based Surface Plasmon Resonance Biosensors and Its Potential for Dopamine Detection. Molecules, 2020, 25, 2769.	1.7	54
36	The Physical and Optical Studies of Crystalline Silica Derived from the Green Synthesis of Coconut Husk Ash. Applied Sciences (Switzerland), 2020, 10, 2128.	1.3	20

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37	The effect of boron substitution on the glass-forming ability, phase transformation and optical performance of zinc-boro-soda-lime-silicate glasses. Journal of Materials Research and Technology, 2020, 9, 6987-6993.	2.6	16
38	Sintering Temperature Effect on Structural and Optical Properties of Heat Treated Coconut Husk Ash Derived SiO2 Mixed with ZnO Nanoparticles. Materials, 2020, 13, 2555.	1.3	14
39	Nanostructured Chitosan/Maghemite Composites Thin Film for Potential Optical Detection of Mercury Ion by Surface Plasmon Resonance Investigation. Polymers, 2020, 12, 1497.	2.0	44
40	Sensitive Detection of Dengue Virus Type 2 E-Proteins Signals Using Self-Assembled Monolayers/Reduced Graphene Oxide-PAMAM Dendrimer Thin Film-SPR Optical Sensor. Scientific Reports, 2020, 10, 2374.	1.6	106
41	Recent Advances in Electrochemical and Optical Sensing of Dopamine. Sensors, 2020, 20, 1039.	2.1	83
42	Experimental evaluation on surface plasmon resonance sensor performance based on sensitive hyperbranched polymer nanocomposite thin films. Sensors and Actuators A: Physical, 2020, 303, 111830.	2.0	23
43	Quantitative and Selective Surface Plasmon Resonance Response Based on a Reduced Graphene Oxideâ€“Polyamidoamine Nanocomposite for Detection of Dengue Virus E-Proteins. Nanomaterials, 2020, 10, 569.	1.9	63
44	Structural, optical and potential sensing properties of tyrosinase immobilized graphene oxide thin film on gold surface. Optik, 2020, 212, 164786.	1.4	14
45	Surface Plasmon Resonance Sensor Based on Polypyrroleâ€“Chitosanâ€“BaFe2O4 Nanocomposite Layer to Detect the Sugar. Applied Sciences (Switzerland), 2020, 10, 2855.	1.3	6
46	Optical studies of crystalline ZnOâ€“SiO‹sub›2‹/sub› developed from pyrolysis of coconut husk. Materials Research Express, 2020, 7, 055901.	0.8	9
47	Detection of phenol by incorporation of gold modified-enzyme based graphene oxide thin film with surface plasmon resonance technique. Optics Express, 2020, 28, 9738.	1.7	30
48	Label-free Binding Analysis of 4-(2-Pyridylazo)-resorcinol-based Composite Layer with Cobalt Ion Using Surface Plasmon Resonance Optical Sensor. Sensors and Materials, 2020, 32, 2877.	0.3	2
49	Recent Advances in Surface Plasmon Resonance Optical Sensors for Potential Application in Environmental Monitoring. Sensors and Materials, 2020, 32, 4191.	0.3	20
50	Optical properties of chitosan/hydroxyl-functionalized graphene quantum dots thin film for potential optical detection of ferric (III) ion. Optics and Laser Technology, 2019, 120, 105724.	2.2	40
51	Exploring Eu3+-doped ZnO-SiO2 glass derived by recycling renewable source of waste rice husk for white-LEDs application. Results in Physics, 2019, 15, 102596.	2.0	20
52	Effect of heat treatment temperature to the crystal growth and optical performance of Mn3O4 doped Î±-Zn2SiO4 based glass-ceramics. Results in Physics, 2019, 15, 102569.	2.0	10
53	Di-Iron Trioxide Hydrate-Multi-Walled Carbon Nanotube Nanocomposite for Arsenite Detection Using Surface Plasmon Resonance Technique. IEEE Photonics Journal, 2019, 11, 1-9.	1.0	5
54	Development of Graphene Quantum Dots-Based Optical Sensor for Toxic Metal Ion Detection. Sensors, 2019, 19, 3850.	2.1	76

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55	Optical band gap and photoluminescence studies of Eu3+-doped zinc silicate derived from waste rice husks. Optik, 2019, 182, 486-495.	1.4	37
56	Development of a Graphene-Based Surface Plasmon Resonance Optical Sensor Chip for Potential Biomedical Application. Materials, 2019, 12, 1928.	1.3	62
57	Nanoplasmonic Sensor Based on Surface Plasmon-Coupled Emission: Review. Applied Sciences (Switzerland), 2019, 9, 1497.	1.3	11
58	Structural and optical properties of chitosanâ€“poly(amidoamine) dendrimer composite thin film for potential sensing Pb2+ using an optical spectroscopy. Optik, 2019, 185, 351-358.	1.4	20
59	Sensitive surface plasmon resonance performance of cadmium sulfide quantum dots-amine functionalized graphene oxide based thin film towards dengue virus E-protein. Optics and Laser Technology, 2019, 114, 204-208.	2.2	66
60	A fluorescence quenching based gene assay for Escherichia coli O157:H7 using graphene quantum dots and gold nanoparticles. Mikrochimica Acta, 2019, 186, 804.	2.5	14
61	Enhanced Sensitivity of Surface Plasmon Resonance Biosensor Functionalized with Doped Polyaniline Composites for the Detection of Low-Concentration Acetone Vapour. Journal of Sensors, 2019, 2019, 1-13.	0.6	24
62	Enhancing the sensitivity of a surface plasmon resonance-based optical sensor for zinc ion detection by the modification of a gold thin film. RSC Advances, 2019, 9, 41729-41736.	1.7	26
63	Label-free optical spectroscopy for characterizing binding properties of highly sensitive nanocrystalline cellulose-graphene oxide based nanocomposite towards nickel ion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 212, 25-31.	2.0	41
64	Optical and surface plasmon resonance sensing properties for chitosan/carboxyl-functionalized graphene quantum dots thin film. Optik, 2019, 178, 802-812.	1.4	47
65	High performance electrocoagulation process in treating palm oil mill effluent using high current intensity application. Chinese Journal of Chemical Engineering, 2019, 27, 208-217.	1.7	54
66	Highly Sensitive Surface Plasmon Resonance Optical Sensor for Detection of Copper, Zinc, and Nickel Ions. Sensor Letters, 2019, 17, 497-504.	0.4	1
67	Surface Plasmon Resonance Sensing of Dengue Virus Based on Iron Oxide-Cellulose Nanocrystals Composite Thin Film. Sensor Letters, 2019, 17, 573-579.	0.4	3
68	Design and analysis of surface plasmon resonance optical sensor for determining cobalt ion based on chitosan-graphene oxide decorated quantum dots-modified gold active layer. Optics Express, 2019, 27, 32294.	1.7	44
69	Optical Studies of Graphene Oxide/Poly(amidoamine) Dendrimer Composite Thin Film and Its Potential for Sensing Hg2+ Using Surface Plasmon Resonance Spectroscopy. Sensors and Materials, 2019, 31, 1147.	0.3	12
70	Detection of adulterated honey by surface plasmon resonance optical sensor. Optik, 2018, 168, 134-139.	1.4	40
71	Incorporation of surface plasmon resonance with novel valinomycin doped chitosan-graphene oxide thin film for sensing potassium ion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 191, 111-115.	2.0	55
72	Recent development of SPR spectroscopy as potential method for diagnosis of dengue virus E-protein. Sensor Review, 2018, 38, 106-116.	1.0	39

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73	Structural and Optical Studies of Cadmium Sulfide Quantum Dot-Graphene Oxide-Chitosan Nanocomposite Thin Film as a Novel SPR Spectroscopy Active Layer. Journal of Nanomaterials, 2018, 2018, 1-8.	1.5	22
74	Effect of Ratio in Ammonium Nitrate on the Structural, Microstructural, Magnetic, and AC Conductivity Properties of BaFe12O19. Materials, 2018, 11, 2190.	1.3	10
75	Optical and structural properties of cadmium sulphide quantum dots based thin films as potential sensing material for dengue virus E-protein. Results in Physics, 2018, 11, 734-739.	2.0	13
76	Optical and structural characterization of immobilized 4-(2-pyridylazo)resorcinol in chitosan-graphene oxide composite thin film and its potential for Co2+ sensing using surface plasmon resonance technique. Results in Physics, 2018, 11, 118-122.	2.0	28
77	Structural, optical and sensing properties of CdS-NH2GO thin film as a dengue virus E-protein sensing material. Optik, 2018, 171, 934-940.	1.4	17
78	Synthesis and structural properties of coconut husk as potential silica source. Results in Physics, 2018, 11, 1-4.	2.0	87
79	Preparation and characterization of hexadecyltrimethylammonium bromide modified nanocrystalline cellulose/graphene oxide composite thin film and its potential in sensing copper ion using surface plasmon resonance technique. Optik, 2018, 173, 71-77.	1.4	31
80	Development of an optical sensor based on surface plasmon resonance phenomenon for diagnosis of dengue virus E-protein. Sensing and Bio-Sensing Research, 2018, 20, 16-21.	2.2	69
81	Exploration of surface plasmon resonance for sensing copper ion based on nanocrystalline cellulose-modified thin film. Optics Express, 2018, 26, 34880.	1.7	46
82	Development of Surface Plasmon Resonance Spectroscopy for Metal Ion Detection. Sensors and Materials, 2018, 30, 2023.	0.3	31
83	Europium doped low cost Zn2SiO4 based glass ceramics: A study on fabrication, structural, energy band gap and luminescence properties. Materials Science in Semiconductor Processing, 2017, 61, 27-34.	1.9	26
84	Photoluminescence studies of cobalt (II) doped zinc silicate nanophosphors prepared via sol-gel method. Optik, 2017, 149, 409-415.	1.4	21
85	Effects of cobalt doping on structural, morphological, and optical properties of Zn2SiO4 nanophosphors prepared by sol-gel method. Results in Physics, 2017, 7, 3820-3825.	2.0	30
86	Structural, optical and sensing properties of ionophore doped graphene based bionanocomposite thin film. Optik, 2017, 144, 308-315.	1.4	37
87	Development of Optical Sensor for Determination of Co(II) Based on Surface Plasmon Resonance Phenomenon. Sensor Letters, 2017, 15, 862-867.	0.4	17
88	Development and Characterization Studies of Eu3+-doped Zn2SiO4 Phosphors with Waste Silicate Sources. Procedia Chemistry, 2016, 19, 21-29.	0.7	25
89	Optical and Structural Properties of Zn2SiO4:Mn2+ from SLS Waste Bottle Obtained by a Solid State Method. Procedia Chemistry, 2016, 19, 57-67.	0.7	5
90	Structural and optical properties of Eu3+ activated low cost zinc soda lime silica glasses. Results in Physics, 2016, 6, 640-644.	2.0	34

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91	Low cost phosphors: Structural and photoluminescence properties of Mn2+-doped willemite glass-ceramics. Optik, 2016, 127, 8076-8081.	1.4	13
92	Synthesis and characterization of low cost willemite based glassâ€“ceramic for opto-electronic applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 11158-11167.	1.1	32
93	Photoluminescence properties of Eu3+-doped low cost zinc silicate based glass ceramics. Optik, 2016, 127, 3727-3729.	1.4	21
94	Synthesis and optical properties of europium doped zinc silicate prepared using low cost solid state reaction method. Journal of Materials Science: Materials in Electronics, 2016, 27, 1092-1099.	1.1	28
95	Biopolymer-Based Thin Film for Sensor Application. Advanced Materials Research, 2015, 1107, 631-636.	0.3	0
96	Preparation, characterization and optical properties of ionophore doped chitosan biopolymer thin film and its potential application for sensing metal ion. Optik, 2015, 126, 4688-4692.	1.4	40
97	Development of surface plasmon resonance sensor for determining zinc ion using novel active nanolayers as probe. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 134, 48-52.	2.0	41
98	Fabrication and evaluation of surface plasmon resonance optical sensor for heavy metal ions detection. , 2013, , .		1
99	Analysis of Pb(II) ion sensing by crosslinked chitosan thin film using surface plasmon resonance spectroscopy. Optik, 2013, 124, 126-133.	1.4	74
100	Surface plasmon resonance spectroscopy as an alternative for sensing heavy metal ions: a review. Sensor Review, 2013, 33, 305-314.	1.0	69
101	Utilization of Chitosan-Based Sensor Thin Films for the Detection of Lead Ion by Surface Plasmon Resonance Optical Sensor. IEEE Sensors Journal, 2013, 13, 1413-1418.	2.4	45
102	Optical characterization of multi layer thin films using surface plasmon resonance method: From electromagnetic theory to sensor application. , 2012, , .		3
103	Surface plasmon resonance optical sensor for detection of Pb2+ based on immobilized p-tert-butylcalix[4]arene-tetrakis in chitosan thin film as an active layer. Sensors and Actuators B: Chemical, 2012, 171-172, 287-293.	4.0	70
104	Real-time monitoring of lead ion interaction on gold/chitosan surface using surface plasmon resonance spectroscopy. Indian Journal of Physics, 2012, 86, 619-623.	0.9	11
105	Characterization of the Optical Properties of Heavy Metal Ions Using Surface Plasmon Resonance Technique. Optics and Photonics Journal, 2011, 01, 116-123.	0.3	43
106	Surface Plasmon Resonance Optical Sensor for Detection of Essential Heavy Metal Ions with Potential for Toxicity: Copper, Zinc and Manganese Ions. Sensor Letters, 2011, 9, 1704-1711.	0.4	29
107	Refractive Index and Fourier Transform Infrared Spectra of Virgin Coconut Oil and Virgin Olive Oil. American Journal of Applied Sciences, 2009, 6, 328-331.	0.1	0