

Rifat Capan

List of Publications by Year in descending order

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1,102
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430874

18
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526287

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all docs

90
docs citations

90
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Langmuir-Blodgett films of a calix[8]arene and sensing properties towards volatile organic vapors. <i>Sensors and Actuators B: Chemical</i> , 2010, 148, 358-365.	7.8	48
2	Characterisation of Langmuir-Blodgett films of new multinuclear copper and zinc phthalocyanines and their sensing properties to volatile organic vapours. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 1017-1024.	7.8	44
3	Fabrication of Langmuir-Blodgett thin films of porphyrins and investigation on their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 126-130.	7.8	43
4	Preparation of pillar[5]arene-quinoline Langmuir-Blodgett thin films for detection of volatile organic compounds with host-guest principles. <i>Analyst</i> , The, 2017, 142, 3689-3698.	3.5	41
5	Optical dispersion in spun nanocrystalline titania thin films. <i>Semiconductor Science and Technology</i> , 2004, 19, 198-202.	2.0	40
6	Optical parameters of calix[4]arene films and their response to volatile organic vapors. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 235-240.	7.8	39
7	Characterization and organic vapor sensing properties of Langmuir-Blodgett film using a new three oxygen-linked phthalocyanine incorporating lutetium. <i>Sensors and Actuators B: Chemical</i> , 2009, 135, 426-429.	7.8	38
8	Characterization of polymeric LB thin films for sensor applications. <i>Journal of Applied Polymer Science</i> , 2012, 123, 2414-2422.	2.6	35
9	Swelling behaviour of calixarene film exposed to various organic vapours by surface plasmon resonance technique. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 66-70.	7.8	33
10	Fabrication of LB thin film of pillar[5]arene-2-amino-3-hydroxypyridine for the sensing of vapors. <i>Materials Letters</i> , 2020, 267, 127538.	2.6	31
11	Haloalkanes and aromatic hydrocarbons sensing using Langmuir-Blodgett thin film of pillar[5]arene-biphenylcarboxylic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 565, 108-117.	4.7	30
12	Preparation and gas sensing properties of Langmuir-Blodgett thin films of calix[n]arenes: Investigation of cavity effect. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 156-164.	7.8	29
13	Sol-gel derived nanocrystalline titania thin films on silicon. <i>Semiconductor Science and Technology</i> , 2005, 20, 788-792.	2.0	26
14	Langmuir-Blodgett thin film for chloroform detection. <i>Applied Surface Science</i> , 2015, 350, 129-134.	6.1	25
15	Fabrication of Langmuir-Blodgett thin films of calix[4]arenes and their gas sensing properties: Investigation of upper rim para substituent effect. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 502-511.	7.8	23
16	A novel triazine-bearing calix[4]arene: Design, synthesis and gas sensing affinity for volatile organic compounds. <i>Tetrahedron</i> , 2019, 75, 2521-2528.	1.9	23
17	Poly(methyl methacrylate) films for organic vapour sensing. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 1115-1119.	2.8	22
18	Optical characterization and swelling behaviour of Langmuir-Blodgett thin films of a novel		

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19	Fabrication of Langmuir-Blodgett thin film for organic vapor detection using a novel N,N'-dicyclohexyl-3,4:9,10-perylenebis (dicarboximide). <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 61-68.	7.8	18
20	Optical and Vapor Sensing Properties of Calix[4]arene Langmuir-Blodgett Thin Films with Host-Guest Principles. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2018, 55, 526-532.	2.2	18
21	Characterization of 1,7-dibromo-N,N'-(bicyclohexyl)-3,4:9,10-perylene diimide Langmuir-Blodgett film for organic vapor sensing application. <i>Applied Surface Science</i> , 2015, 350, 135-141.	6.1	17
22	Swelling behavior of the 2-(4-methoxyphenylamino)-2-oxoethyl methacrylate monomer LB thin film exposed to various organic vapors by quartz crystal microbalance technique. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2016, 53, 18-25.	2.2	17
23	Fabrication and characterization of calix[4]arene Langmuir-Blodgett thin film for gas sensing applications. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2017, 89, 77-84.	1.6	17
24	Molecular engineering of pyroelectric polysiloxane Langmuir-Blodgett superlattices: synthesis, film preparation and pyroelectric properties. <i>Supramolecular Science</i> , 1994, 1, 39-53.	0.7	16
25	Thin film characterization and vapor sensing properties of a novel perylene diimide material. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 65-71.	7.8	16
26	Preparation of Langmuir-Blodgett thin films of calix[6]arenes and p-tert butyl group effect on their gas sensing properties. <i>Applied Surface Science</i> , 2015, 359, 364-371.	6.1	16
27	Swelling behavior of pyrene-labelled polystyrene LB thin film exposed to various volatile organic vapors. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 328-335.	7.8	15
28	Poly(methyl methacrylate) monolayers at the air-water interface. <i>Materials Letters</i> , 2005, 59, 2468-2471.	2.6	14
29	Organic vapor sensing properties of copolymer Langmuir-Blodgett thin film sensors. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2016, 53, 470-474.	2.2	13
30	Spun thin films of poly(methyl methacrylate) polymer for benzene sensing. <i>Smart Materials and Structures</i> , 2005, 14, N11-N15.	3.5	12
31	A study of Langmuir-Blodgett thin film for organic vapor detection. <i>Materials Letters</i> , 2007, 61, 417-420.	2.6	12
32	Synthesis, characterization and chemical sensor properties of a novel Zn(II) phthalocyanine containing 15-membered dioxo-dithia macrocycle moiety. <i>Synthetic Metals</i> , 2021, 280, 116870.	3.9	11
33	Pyroelectric superlattices based on copolysiloxane/calix[8]arene alternate layer LB films. <i>Materials Science and Engineering C</i> , 1999, 8-9, 377-384.	7.3	10
34	Pyroelectric figure of merit for a heterogeneous alternate layer Langmuir-Blodgett film system. <i>Thin Solid Films</i> , 2002, 415, 236-241.	1.8	10
35	Electrical characterisation of stearic acid/eicosylamine alternate layer Langmuir-Blodgett films incorporating CdS nanoparticles. <i>Thin Solid Films</i> , 2007, 515, 3956-3961.	1.8	10
36	Electrical properties of a calix[4]acid/amine Langmuir-Blodgett thin film. <i>Materials Chemistry and Physics</i> , 2011, 125, 883-886.	4.0	10

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37	Chemical Sensor Properties and Mathematical Modeling of Graphene Oxide Langmuir-Blodgett Thin Films. <i>IEEE Sensors Journal</i> , 2019, 19, 9097-9104.	4.7	10
38	Investigation of environmentally volatile pollutants sensing using pillar[5]arene-based macrocycle Langmuir-Blodgett film. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	10
39	A Novel Calix[4]arene Thiourea Decorated with 2-(2-Aminophenyl)benzothiazole Moiety as Highly Selective Chemical Gas Sensor for Dichloromethane Vapor. <i>ChemistrySelect</i> , 2021, 6, 4670-4676.	1.5	10
40	Cd ²⁺ and Mn ²⁺ incorporation in copolysiloxane/eicosylamine alternate layer LB films: influence on pyroelectric activity. <i>Thin Solid Films</i> , 1998, 327-329, 369-372.	1.8	9
41	Calix[4]arene-triazine conjugate intermediate: optical properties and gas sensing responses against aromatic hydrocarbons in Langmuir-Blodgett films. <i>Research on Chemical Intermediates</i> , 2020, 46, 4433-4445.	2.7	9
42	A macrocyclic tetra-undecyl calix[4]resorcinarene thin film receptor for chemical vapour sensor applications. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020, 98, 237-247.	1.6	9
43	Recent progress in pillar[n]arene-based thin films on chemical sensor applications. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2021, 100, 39-54.	1.6	9
44	Preparation of Zinc (II) phthalocyanine-based LB thin film: Experimental characterization, the determination of some optical properties and the investigation of the optical sensing ability. <i>Optik</i> , 2021, 245, 167661.	2.9	9
45	High pyroelectric sensitivity in alternate layer Langmuir-Blodgett superlattices. <i>Materials Science and Engineering C</i> , 1995, 3, 197-203.	7.3	8
46	Pyroelectric effect in a mixed polysiloxane/eicosylamine Langmuir-Blodgett thin film. <i>Materials Letters</i> , 2004, 58, 3131-3135.	2.6	8
47	A study of pyroelectric and dielectric properties of alternate layer fluorodeconoylmonoitaconate Langmuir-Blodgett films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 835-841.	4.7	7
48	Microstructural and electrical studies on diamond films. <i>Vacuum</i> , 2005, 77, 231-235.	3.5	7
49	Characterization of a Novel 1,3-Bis(4-aminobenzoic acid)indane Langmuir-Blodgett Film for Organic Vapor Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1108-1112.	0.9	7
50	Fabrication of a novel 1,3-bis(p-hydrasonobenzoic acid)indane Langmuir-Blodgett film and organic vapor sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 622-627.	7.8	7
51	An Optical Vapor Sensor Based on Amphiphilic Block Copolymer Langmuir-Blodgett Films. <i>IEEE Sensors Journal</i> , 2018, 18, 5313-5320.	4.7	7
52	A room temperature acetone sensor based on synthesized tetranitro-oxacalix[4]arenes: Thin film fabrication and sensing properties. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112308.	4.1	7
53	Formation of nanocomposite Langmuir-Blodgett alternate multilayers. <i>IET Circuits, Devices and Systems</i> , 2003, 150, 367.	0.6	6
54	Pyroelectric figure of merit for a calix [4] acid/amine alternate layer Langmuir-Blodgett film. <i>Materials Letters</i> , 2005, 59, 1945-1948.	2.6	6

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55	Formation of Langmuir-Blodgett thin film of a novel N-dodecylphthalimide. <i>Materials Letters</i> , 2006, 60, 2371-2374.	2.6	6
56	Pyroelectric and dielectric characterisation of alternate layer Langmuir-Blodgett films incorporating ions. <i>Materials Letters</i> , 2007, 61, 1231-1234.	2.6	6
57	Plasma Polymerized Calixarene Thin Films and their Sensing Properties to Chloroform Vapors. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 521, 104-111.	0.9	6
58	Characterization of PDPA- <i>b</i> -PDMA- <i>b</i> -PDPA triblock copolymer Langmuir-Blodgett films for organic vapor sensing application. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 634, 104-117.	0.9	6
59	Optical Characterization of an <i>N,N</i> -Dicyclohexyl-3,4:9,10-Perylene bis(Dicarboximide) Langmuir-Blodgett Film for the Determination of Volatile Organic Compounds. <i>Analytical Letters</i> , 2016, 49, 2573-2586.	1.8	6
60	An Aminopyridine Bearing Pillar[5]arene-Based QCM Sensor for Chemical Sensing Applications: Design, Experimental Characterization, Data Modeling, and Prediction. <i>IEEE Sensors Journal</i> , 2020, 20, 14732-14739.	4.7	6
61	Electrospun polyacrylonitrile (PAN) nanofiber: preparation, experimental characterization, organic vapor sensing ability and theoretical simulations of binding energies. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	6
62	A theoretical model for the pyroelectric response in Langmuir-Blodgett films. <i>Materials Science and Engineering C</i> , 2002, 22, 245-249.	7.3	5
63	Preparation and characterization of calix[6]arene Langmuir-Blodgett thin film. <i>Thin Solid Films</i> , 2012, 520, 6238-6242.	1.8	5
64	Electrical properties of alternating acid and amino substituted calixarene Langmuir-Blodgett thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109146.	4.0	5
65	<i>N,N</i> -Bis(<i>l</i> -alanine tert-butylester)-3,4:9,10- <i>perylene diimide</i> molecule for volatile organic vapor detection. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1057-1070.	3.4	5
66	Fabrication of picoline amide-based calix[4]arene Langmuir-Blodgett thin film for volatile organic vapor sensing application. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 710, 49-65.	0.9	5
67	Pyroelectric and Conduction Properties of Z-type Calix[4] Acid Langmuir-Blodgett Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1910-1914.	0.9	4
68	Influence of Cd ²⁺ ions on electrical properties of stearic acid Langmuir-Blodgett films. <i>Materials Chemistry and Physics</i> , 2009, 117, 281-283.	4.0	4
69	Electrical conductivity properties of boron containing Langmuir-Blodgett thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3403-3411.	2.2	4
70	Spun films of <i>perylene diimide</i> derivative for the detection of organic vapors with host-guest principle. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2018, 92, 137-146.	1.6	4
71	Developing of <i>N</i> -(4-methylpyrimidine-2-yl)methacrylamide Langmuir-Blodgett thin film chemical sensor via quartz crystal microbalance technique. <i>Microscopy Research and Technique</i> , 2020, 83, 1198-1207.	2.2	4
72	Pyroelectric effect in Langmuir-Blodgett films incorporating ions. <i>Thin Solid Films</i> , 2004, 468, 262-267.	1.8	3

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73	Langmuir-Blodgett film properties of based on calix[4]resorcinarene and the detection of those against volatile organic compounds. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	3
74	Organic vapor sensing properties and characterization of β -naphthylmethacrylate LB thin films. Journal of Macromolecular Science - Pure and Applied Chemistry, 2019, 56, 845-853.	2.2	3
75	Characterization and Gas Sensing Properties of Langmuir-Blodgett Thin Films of Poly(CINOEMA-co-DEAEMA). Sensor Letters, 2016, 14, 474-483.	0.4	3
76	Electrical Properties of a Novel 1,3-Bis-(p-aminobenzoic Acid) Indane Langmuir-Blodgett Films Containing ZnS Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 2654-2658.	0.9	2
77	Electrical characterisation of stearic acid/calix[4]amine Langmuir-Blodgett thin film. Materials Chemistry and Physics, 2014, 143, 1258-1264.	4.0	2
78	Dielectric Measurements on Sol-Gel Derived Titania Films. Journal of Electronic Materials, 2017, 46, 6646-6652.	2.2	2
79	Improvement of sensing properties for polymer based gas sensors via host-guest principles. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2020, 96, 315-323.	1.6	2
80	Benzene Vapor Detection Using Spun Poly(methyl methacrylate) Thin Films. Sensor Letters, 2008, 6, 428-432.	0.4	2
81	Growth of CdS nanoparticles in Y- and Z-type Langmuir-Blodgett thin film using 1,3-bis-(p-aminobenzoic acid) Langmuir-Blodgett thin film. Journal of Physics: Conference Series, 2019, 1186, 012011.	0.784314	1
82	Calix[4]amine Langmuir-Blodgett thin film sensing properties against volatile organic compounds. Journal of Physics: Conference Series, 2019, 1186, 012011.	0.4	1
83	Dielectric measurements on stearic acid/eicosylamine alternate layer Langmuir-Blodgett films incorporating CdS nanoparticles. Journal of Materials Science: Materials in Electronics, 2021, 32, 8798-8806.	2.2	1
84	Phthalimide Thin Film for Methanol Vapor Detection. Sensor Letters, 2008, 6, 261-265.	0.4	1
85	Langmuir-Blodgett Thin Film Characterization and Vapor Sensing Properties of Boron Containing Materials. Sensor Letters, 2013, 11, 476-482.	0.4	1
86	Sensor application of pyridine modified calix[4]arene Langmuir-Blodgett thin film. Optik, 2022, 265, 169492.	2.9	1
87	Room temperature conduction characteristics of Calix [4] acid/amine alternate layer Langmuir-Blodgett films. , 0, , .		0
88	Thin film properties and the detection volatile organic compounds of C-methylcalix(4)resorcinarene. , 2018, , .		0
89	Stability evaluation of environmentally volatile pollutants sensing devices by developing theoretical calculation and mathematical modeling. Sensors and Actuators A: Physical, 2022, 333, 113216.	4.1	0
90	The bisbenzothiazole-p-tert-butylcalix[4]arene-thiourea Langmuir-Blodgett thin films: preparation, optical properties, swelling dynamics and gas sensing properties via host-guest principles. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 0, , 1.	1.6	0