Mohammad Reza Mohammadizadeh

List of Publications by Year
in descending order

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95 papers	2,545 citations	257357 24 h-index	214721 47 g-index
96 all docs	96 docs citations	96 times ranked	2776 citing authors

#	Article	IF	Citations
1	Variable range hopping conduction mechanisms in reduced rutile TiO₂. Physica Scripta, 2022, 97, 045408.	1.2	1
2	Tunable Nanoporous Structures with Rose Petal Effect by Softâ€Template Electropolymerization of Benzotrithiophene Monomers. ChemistrySelect, 2022, 7, .	0.7	2
3	Tuning memristance and transport properties of TiO2 by oxygen vacancy concentration. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	0
4	Synthesis and effectiveness of Cu-infused TiO2-SiO2 based self-cleaning and antibacterial thin-films coating on ceramic tiles. Journal of Sol-Gel Science and Technology, 2022, 103, 396-404.	1.1	5
5	Surface Nanostructure Control with Poly(ethylene glycol) (PEG) Spacer by Templateless Electropolymerization. Journal of Bionic Engineering, 2021, 18, 65-76.	2.7	0
6	Fluctuation Conductivity in MOD-Derived YBCO Thin Films. Journal of Superconductivity and Novel Magnetism, 2021, 34, 705-713.	0.8	3
7	Y3Ba5Cu8Ox Superconductor Under Hydrostatic Pressure. Journal of Low Temperature Physics, 2021, 203, 309-318.	0.6	3
8	Deposition of Superhydrophobic Fatty Acid-Coated Al2O3 Films by Spray Pyrolysis Method: Effect of Dispersion Mediums on Morphology and Roughness of the Layer. Protection of Metals and Physical Chemistry of Surfaces, 2021, 57, 335-343.	0.3	2
9	Electron-phonon interaction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ti</mml:mi><mml:mi>n</mml:mi></mml:ms mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mi>n</mml:mi><mml:mo>â^'</mml:mo><mml:mn>1< using first-principles calculations. Physical Review B, 2021, 104, .	1.1	6
10	The influence of bath temperature on the one-step electrodeposition of non- wetting copper oxide coatings. Applied Surface Science, 2020, 503, 144094.	3.1	15
11	Fabrication of YBCO Thin Films by Fluorine-Free MOCSD Method: Influence of Sintering Near the Melting Point. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-8.	1.1	3
12	Bioinspired surfaces with strong water adhesion by electropolymerization of thieno[3,4-b]thiophene with mixed hydrocarbon/short fluorocarbon chains. Journal of Fluorine Chemistry, 2020, 236, 109574.	0.9	1
13	Modification of stainless steel by Cu2O coating for hydrophobic applications: a morphological study. Surface Topography: Metrology and Properties, 2020, 8, 025014.	0.9	3
14	Designing bioinspired coral-like structures using a templateless electropolymerization approach with a high water content. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190123.	1.6	7
15	Designing Nanoporous Membranes through Templateless Electropolymerization of Thieno[3,4-b]thiophene Derivatives with High Water Content. ACS Omega, 2019, 4, 13080-13085.	1.6	19
16	Wetting Transition from Hydrophilic to Superhydrophobic over Dendrite Copper Leaves Grown on Steel Meshes. Journal of Bionic Engineering, 2019, 16, 719-729.	2.7	12
17	Nanotubular structures through templateless electropolymerization using thieno[3,4-b]thiophene derivatives with different substituents and water content. Electrochimica Acta, 2019, 320, 134594.	2.6	12
18	Roughness dependent wettability of sputtered copper thin films: The effect of the local surface slope. Journal of Applied Physics, 2019, 125, .	1.1	24

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19	Roughness-dependent wetting behavior of vapor-deposited metallic thin films. Physical Review E, 2019, 100, 022804.	0.8	17
20	Effects of various types of hydrogen dopants on optical properties of ZnO. Optik, 2019, 187, 117-123.	1.4	3
21	Fabrication of Superhydrophobic Hierarchical Surfaces by Square Pulse Electrodeposition: Copperâ€Based Layers on Gold/Silicon (100) Substrates. ChemPlusChem, 2019, 84, 368-373.	1.3	11
22	Hydrophobic Cu2O surfaces prepared by chemical bath deposition method. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	19
23	Superhydrophobic and fluorescent properties of fluorinated polypyrene surfaces using various polar linkers prepared via electropolymerization. Reactive and Functional Polymers, 2019, 135, 65-76.	2.0	11
24	Flux pinning enhancement in thin films of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mi mathvariant="normal">	0.6	7
25	High temperature superconducting YBCO microwave filters. Physica C: Superconductivity and Its Applications, 2018, 549, 22-26.	0.6	6
26	Structural and electronic properties of hydrogen doped Wurtzite ZnO. Computational Materials Science, 2018, 143, 232-239.	1.4	11
27	Nanocups and hollow microspheres formed by a one-step and templateless electropolymerization of thieno[3,4-b]thiophene derivatives as a function of the substituent. Electrochimica Acta, 2018, 269, 462-478.	2.6	17
28	Intrinsically water-repellent copper oxide surfaces; An electro-crystallization approach. Applied Surface Science, 2018, 443, 191-197.	3.1	15
29	Ab-initio study of electronic and elastic properties of Mg(BH4)(NH2) complex hydride. International Journal of Hydrogen Energy, 2018, 43, 1587-1595.	3.8	3
30	Experimental Characterization of Droplet Adhesion: The Ejection Test Method (ETM) Applied to Surfaces with Various Hydrophobicity. Journal of Physical Chemistry A, 2018, 122, 8693-8700.	1.1	8
31	Superhydrophobic properties of electrodeposited fluorinated polypyrenes. Journal of Fluorine Chemistry, 2017, 193, 73-81.	0.9	16
32	First-principles insights into role of hydrogen atom in black titania. Computational Materials Science, 2017, 139, 84-88.	1.4	6
33	Electrodeposited Poly(thieno[3,2â€b]thiophene) Films for the Templateless Formation of Porous Structures by Galvanostatic and Pulse Deposition. ChemPlusChem, 2017, 82, 1351-1358.	1.3	18
34	Excitonic effects in the optical properties of hydrogenated anatase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2017, 95, .	1.1	28
35	Effect of Oxygen Pressure on the Surface Roughness and Intergranular Behavior of YBCO Thin Films. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1483-1489.	0.8	7
36	Ab Initio Simulation of the Effects of Hydrogen Concentration on Anatase TiO₂. Journal of Physical Chemistry C, 2016, 120, 8421-8427.	1.5	26

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37	Optical and electronic properties of H-doped ZnO. Optical and Quantum Electronics, 2016, 48, 1.	1.5	7
38	A template-free approach to nanotube-decorated polymer surfaces using 3,4-phenylenedioxythiophene (PhEDOT) monomers. Journal of Materials Chemistry A, 2016, 4, 17308-17323.	5.2	44
39	One-Step and Templateless Electropolymerization Process Using Thienothiophene Derivatives To Develop Arrays of Nanotubes and Tree-like Structures with High Water Adhesion. ACS Applied Materials & Interfaces, 2016, 8, 22732-22743.	4.0	36
40	Templateless electrodeposition of conducting polymer nanotubes on mesh substrates for high water adhesion. Nano Structures Nano Objects, 2016, 7, 64-68.	1.9	10
41	Spontaneous, Phase-Separation Induced Surface Roughness: A New Method to Design Parahydrophobic Polymer Coatings with Rose Petal-like Morphology. ACS Applied Materials & Interfaces, 2016, 8, 3063-3071.	4.0	45
42	Electrodeposition of Polypyrenes with Tunable Hydrophobicity, Water Adhesion, and Fluorescence Properties. Journal of Physical Chemistry C, 2016, 120, 7077-7087.	1.5	24
43	Influence of the monomer structure and electrochemical parameters on the formation of nanotubes with parahydrophobic properties (high water adhesion) by a templateless electropolymerization process. Journal of Colloid and Interface Science, 2016, 466, 413-424.	5.0	26
44	Nanostructured superhydrophobic films synthesized by electrodeposition of fluorinated polyindoles. Beilstein Journal of Nanotechnology, 2015, 6, 2078-2087.	1.5	11
45	Low bioaccumulative materials for parahygrophobic nanosheets with sticking behaviour. Journal of Colloid and Interface Science, 2015, 447, 167-172.	5.0	19
46	3,4-Ethylenedioxypyrrole (EDOP) Monomers with Aromatic Substituents for Parahydrophobic Surfaces by Electropolymerization. Macromolecules, 2015, 48, 5188-5195.	2.2	23
47	Staudinger Vilarassa reaction: A powerful tool for surface modification and superhydrophobic properties. Journal of Colloid and Interface Science, 2015, 457, 72-77.	5.0	20
48	Photocatalytic activity of TiO2 thin films by hydrogen DC plasma. Applied Surface Science, 2015, 350, 43-49.	3.1	37
49	Hydrogen irradiation on TiO2 nano-thin films. Applied Physics A: Materials Science and Processing, 2015, 121, 149-156.	1.1	5
50	Ab-initio study of hydrogen doping and oxygen vacancy at anatase TiO2 surface. AIP Advances, 2014, 4, 027129.	0.6	22
51	Recent advances in the potential applications of bioinspired superhydrophobic materials. Journal of Materials Chemistry A, 2014, 2, 16319-16359.	5.2	490
52	First principles study of hydrogen doping in anatase TiO₂. EPJ Applied Physics, 2014, 67, 30401.	0.3	20
53	Influence of substrate on the hydrophilicity and photocatalytic properties of TiO₂nano-layers. Physica Scripta, 2013, 88, 025604.	1.2	7
54	Influence of intrinsic oleophobicity and surface structuration on the superoleophobic properties of PEDOP films bearing two fluorinated tails. Journal of Materials Chemistry A, 2013, 1, 2896.	5.2	37

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55	Superhydrophobic Surfaces by Electrochemical Processes. Advanced Materials, 2013, 25, 1378-1394.	11.1	395
56	N-doped TiO₂nanothin films: photocatalytic and hydrophilicity properties. EPJ Applied Physics, 2013, 61, 10303.	0.3	13
57	Specific Heat Capacity of TiO₂ Nanoparticles. Journal of Computational and Theoretical Nanoscience, 2012, 9, 616-620.	0.4	36
58	Structural, electronic, and dynamical properties of Pca21-TiO ₂ by first principles. Europhysics Letters, 2012, 97, 56003.	0.7	14
59	Simultaneous improvement of photocatalytic and superhydrophilicity properties of nano TiO2 thin films. Chemical Engineering Research and Design, 2012, 90, 1473-1479.	2.7	30
60	Quantum Monte Carlo study of high-pressure cubic TiO2. Applied Physics Letters, 2012, 100, 261902.	1.5	26
61	First-principles study of lattice dynamics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">TiO</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>in brookite and cotunnite structures. Physical Review B, 2011, 83, .	1.1	39
62	Superhydrophobic Fiber Mats by Electrodeposition of Fluorinated Poly(3,4-ethyleneoxythiathiophene). Journal of the American Chemical Society, 2011, 133, 15627-15634.	6.6	121
63	Superhydrophilicity and photocatalytic enhancement of titania nano thin films. Applied Surface Science, 2011, 257, 3780-3785.	3.1	23
64	Photocatalytic and superhydrophilicity properties of N-doped TiO2 nanothin films. Applied Surface Science, 2011, 257, 7179-7183.	3.1	39
65	Superhydrophilicity and photocatalytic activity of solâ€“gel deposited nanosized titania thin films. Thin Solid Films, 2011, 519, 6432-6437.	0.8	23
66	First-principles elastic and thermal properties of TiO₂: a phonon approach. Journal of Physics Condensed Matter, 2010, 22, 015401.	0.7	71
67	The bipolaron model in the normal state of Pr-doped GdBa₂Cu₃O₇superconductors. Superconductor Science and Technology, 2010, 23, 045003.	1.8	4
68	Fluorophobic Effect for Building up the Surface Morphology of Electrodeposited Substituted Conductive Polymers. Langmuir, 2009, 25, 5463-5466.	1.6	42
69	Electric field gradients in PrBa2 Cu 3 O 7 : LSDA+U results and comparison with experiment. European Physical Journal B, 2008, 61, 309-318.	0.6	10
70	Superhydrophilicity of TiO2 thin films using TiCl4 as a precursor. Materials Research Bulletin, 2008, 43, 522-530.	2.7	57
71	Different self-consistent electronic structures of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PrBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LSDA</mml:mtext></mml:mrow><mml:mn>. Physical Review B, 2008, 78, .	1.1	11
72	Influence of Temperature on TiO2 Nanoparticles. Current Nanoscience, 2008, 4, 151-156.	0.7	17

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73	The effect of heat treatment on superhydrophilicity of TiO₂nano thin films. EPJ Applied Physics, 2007, 40, 155-162.	0.3	22
74	Simulation of YBa2Cu3O7/MgO surface growth. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3118-3121.	0.8	1
75	The effects of Pr at R and Ba sites on the electronic structure of RBa2Cu3O7. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3122-3125.	0.8	6
76	Superconductivity in an ultra-small radius SWCNT. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3126-3129.	0.8	4
77	Structural and electronic properties of ultra-small radius SWCNT. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 31, 31-37.	1.3	14
78	Charge Transfer in YBCO Under Pressure with Bond Valence Sum Approach. Journal of Superconductivity and Novel Magnetism, 2005, 18, 299-307.	0.5	6
79	The effect of TiO2 doping on the structure and magnetic and magnetotransport properties of La0.75Sr0.25MnO3 composite. Journal of Applied Physics, 2005, 98, 043908.	1.1	44
80	Flux dynamics, superconducting, and normal state properties of Gd(Ba $mathsf{_{2-x}}$ Pr) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 T 321-336.	0.6	10
81	High temperature superconductors as a two-dimensional electron gas. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1828-1831.	0.8	0
82	Conduction mechanism in Pr-doped GdBa2Cu3O7. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1851-1854.	0.8	1
83	Appearance of a new superconducting phase in Gd(Ba2â^'xPrx)Cu3O7+Î´. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1879-1882.	0.8	0
84	Effects of Pr doping and magnetic field on vortex pinning in Gd-123 based HTSC. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1883-1886.	0.8	1
85	Magnetic field effects on electrical resistivity of (Gd1â^'xPrx)Ba2Cu3O7â^'Î´ and Gd(Ba2â^'xPrx)Cu3O7+Î´. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1887-1890.	0.8	1
86	Normal state conduction in Gd(Ba2?xPrx)Cu3O7+?. European Physical Journal B, 2003, 33, 381-390.	0.6	31
87	Pseudogap in Gd-based 123 HTSC. Physica B: Condensed Matter, 2003, 336, 410-419.	1.3	19
88	Magnetoresistance in Gd(Ba2â^'xPrx)Cu3O7+Î´ system. Physica C: Superconductivity and Its Applications, 2003, 390, 134-142.	0.6	41
89	Pr at Gd or Ba site inGdBa2Cu3O7:â€ƒAppearance of superconductivity. Physical Review B, 2003, 68, .	1.1	34
90	Two dimensionality aspects of HTSC. Superconductor Science and Technology, 2003, 16, 1216-1223.	1.8	21

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91	Thermally activated flux creep in the Gd(Ba2ÂxPrx)Cu3O7ÂÂsystem. Superconductor Science and Technology, 2003, 16, 538-544.	1.8	38
92	Mis-substitution effect in Gd1â^'xPrxBa2Cu3O7â^'Î´ system. Physica B: Condensed Matter, 2002, 321, 301-304.	1.3	21
93	Charge density distribution with pressure in Y-123. Physica B: Condensed Matter, 2002, 321, 360-364.	1.3	13
94	Structural and electronic properties of YBa2Cu3O7 under high pressures. Physica C: Superconductivity and Its Applications, 2002, 370, 85-93.	0.6	21
95	Electronâ€“Phonon Coupling Constant of Uranium and Lutetium. Journal of Superconductivity and Novel Magnetism, 0, , .	0.8	0