

Abdul Rahim Ferhan

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,292
citations

182225

30
h-index

242451

47
g-index

58
all docs

58
docs citations

58
times ranked

4170
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic Nanomaterial Strategies for Virus Targeting: Antiviral Therapies and Vaccines. <i>Advanced Functional Materials</i> , 2021, 31, 2008352.	7.8	25
2	Self-Assembly of Solubilized Human Hair Keratins. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 83-89.	2.6	7
3	Fabrication of Plasmon-Active Polymer-Nanoparticle Composites for Biosensing Applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 945-954.	2.7	9
4	Chemical design principles of next-generation antiviral surface coatings. <i>Chemical Society Reviews</i> , 2021, 50, 9741-9765.	18.7	31
5	Ultrahigh surface sensitivity of deposited gold nanorod arrays for nanoplasmonic biosensing. <i>Applied Materials Today</i> , 2021, 23, 101046.	2.3	6
6	Solvent-induced conformational tuning of lysozyme protein adlayers on silica surfaces: A QCM-D and LSPR study. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1906-1914.	3.6	6
7	Surface engineering of plasmonic gold nanoisland platforms for high-sensitivity refractometric biosensing applications. <i>Applied Materials Today</i> , 2021, 26, 101280.	2.3	4
8	Probing the influence of tether density on tethered bilayer lipid membrane (tBLM)-peptide interactions. <i>Applied Materials Today</i> , 2020, 18, 100527.	2.3	5
9	Conformational flexibility of fatty acid-free bovine serum albumin proteins enables superior antifouling coatings. <i>Communications Materials</i> , 2020, 1, .	2.9	44
10	Cloaking Silica Nanoparticles with Functional Protein Coatings for Reduced Complement Activation and Cellular Uptake. <i>ACS Nano</i> , 2020, 14, 11950-11961.	7.3	39
11	Elucidating How Different Amphipathic Stabilizers Affect BSA Protein Conformational Properties and Adsorption Behavior. <i>Langmuir</i> , 2020, 36, 10606-10614.	1.6	13
12	Understanding how natural sequence variation in serum albumin proteins affects conformational stability and protein adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111194.	2.5	17
13	Unraveling how nanoscale curvature drives formation of lysozyme protein monolayers on inorganic oxide surfaces. <i>Applied Materials Today</i> , 2020, 20, 100729.	2.3	2
14	Biologically interfaced nanoplasmonic sensors. <i>Nanoscale Advances</i> , 2020, 2, 3103-3114.	2.2	10
15	Scalable Fabrication of Quasi-One-Dimensional Gold Nanoribbons for Plasmonic Sensing. <i>Nano Letters</i> , 2020, 20, 1747-1754.	4.5	19
16	Molecular diffusion and nano-mechanical properties of multi-phase supported lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16686-16693.	1.3	20
17	Surface-Based Nanoplasmonic Sensors for Biointerfacial Science Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1404-1412.	2.0	40
18	Solvent-assisted preparation of supported lipid bilayers. <i>Nature Protocols</i> , 2019, 14, 2091-2118.	5.5	70

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19	Modulating conformational stability of human serum albumin and implications for surface passivation applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 180, 306-312.	2.5	11
20	Surface-floating gold nanorod super-aggregates with macroscopic uniformity. <i>Nano Research</i> , 2018, 11, 2379-2391.	5.8	4
21	Nanoplasmonic sensors for detecting circulating cancer biomarkers. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 48-77.	6.6	88
22	Nanoplasmonic Ruler for Measuring Separation Distance between Supported Lipid Bilayers and Oxide Surfaces. <i>Analytical Chemistry</i> , 2018, 90, 12503-12511.	3.2	16
23	Therapeutic treatment of Zika virus infection using a brain-penetrating antiviral peptide. <i>Nature Materials</i> , 2018, 17, 971-977.	13.3	74
24	Temperature-Induced Denaturation of BSA Protein Molecules for Improved Surface Passivation Coatings. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32047-32057.	4.0	77
25	Nanoplasmonic Sensing Architectures for Decoding Membrane Curvature-Dependent Biomacromolecular Interactions. <i>Analytical Chemistry</i> , 2018, 90, 7458-7466.	3.2	16
26	Quantitative Comparison of Protein Adsorption and Conformational Changes on Dielectric-Coated Nanoplasmonic Sensing Arrays. <i>Sensors</i> , 2018, 18, 1283.	2.1	19
27	Probing Spatial Proximity of Supported Lipid Bilayers to Silica Surfaces by Localized Surface Plasmon Resonance Sensing. <i>Analytical Chemistry</i> , 2017, 89, 4301-4308.	3.2	22
28	Nanoplasmonic sensors for biointerfacial science. <i>Chemical Society Reviews</i> , 2017, 46, 3615-3660.	18.7	195
29	Controlling adsorption and passivation properties of bovine serum albumin on silica surfaces by ionic strength modulation and cross-linking. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8854-8865.	1.3	49
30	Investigating how vesicle size influences vesicle adsorption on titanium oxide: a competition between steric packing and shape deformation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2131-2139.	1.3	31
31	Quantitative Profiling of Nanoscale Liposome Deformation by a Localized Surface Plasmon Resonance Sensor. <i>Analytical Chemistry</i> , 2017, 89, 1102-1109.	3.2	52
32	Indirect Nanoplasmonic Sensing Platform for Monitoring Temperature-Dependent Protein Adsorption. <i>Analytical Chemistry</i> , 2017, 89, 12976-12983.	3.2	36
33	Probing the Interaction of Dielectric Nanoparticles with Supported Lipid Membrane Coatings on Nanoplasmonic Arrays. <i>Sensors</i> , 2017, 17, 1484.	2.1	16
34	Nanoparticle polymer composites on solid substrates for plasmonic sensing applications. <i>Nano Today</i> , 2016, 11, 415-434.	6.2	56
35	Integration of Quartz Crystal Microbalance-Dissipation and Reflection-Mode Localized Surface Plasmon Resonance Sensors for Biomacromolecular Interaction Analysis. <i>Analytical Chemistry</i> , 2016, 88, 12524-12531.	3.2	46
36	Stealth Immune Properties of Graphene Oxide Enabled by Surface-Bound Complement Factor H. <i>ACS Nano</i> , 2016, 10, 10161-10172.	7.3	49

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37	Dimensional comparison between amplitude-modulation atomic force microscopy and scanning ion conductance microscopy of biological samples. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 08NB18.	0.8	5
38	A facile method towards rough morphology polymer brush for increased mobility of embedded nanoparticles. <i>Polymer</i> , 2015, 75, 57-63.	1.8	5
39	Signal-on electrochemiluminescent aptasensors based on target controlled permeable films. <i>Chemical Communications</i> , 2015, 51, 1035-1038.	2.2	47
40	Single-step synthesis of various distinct hierarchical Ag structures. <i>RSC Advances</i> , 2015, 5, 84257-84262.	1.7	3
41	A Strategy for the Formation of Gold-Palladium Supra-Nanoparticles from Gold Nanoparticles of Various Shapes and Their Application to High-Performance H ₂ O ₂ Sensing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26164-26170.	1.5	40
42	Gold Nanowire Bundles Grown Radially Outward from Silicon Micropillars. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17582-17586.	4.0	32
43	High-yield synthesis of triangular gold nanoplates with improved shape uniformity, tunable edge length and thickness. <i>Nanoscale</i> , 2014, 6, 6496-6500.	2.8	87
44	In situ synthesis of protein-resistant poly(oligo(ethylene glycol)methacrylate) films in capillary for protein separation. <i>RSC Advances</i> , 2014, 4, 4883.	1.7	9
45	Solid-Phase Colorimetric Sensor Based on Gold Nanoparticle-Loaded Polymer Brushes: Lead Detection as a Case Study. <i>Analytical Chemistry</i> , 2013, 85, 4094-4099.	3.2	84
46	Oriented Gold Nanoparticle Aggregation for Colorimetric Sensors with Surprisingly High Analytical Figures of Merit. <i>Journal of the American Chemical Society</i> , 2013, 135, 12338-12345.	6.6	305
47	Tunable scattered colors over a wide spectrum from a single nanoparticle. <i>Nanoscale</i> , 2013, 5, 7772.	2.8	30
48	Physical immobilization of antibodies in densely grafted polymer brushes via spot-drying: towards optimal protein loading. <i>RSC Advances</i> , 2013, 3, 9785.	1.7	3
49	Colorimetric Sensors: Distance-Mediated Plasmonic Dimers for Reusable Colorimetric Switches: A Measurable Peak Shift of More than 60 nm (Small 2/2013). <i>Small</i> , 2013, 9, 233-233.	5.2	2
50	Au Nanorod Decoration on NaYF ₄ :Yb/Tm Nanoparticles for Enhanced Emission and Wavelength-Dependent Biomolecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3508-3513.	4.0	98
51	Enhanced emission of NaYF ₄ :Yb,Er/Tm nanoparticles by selective growth of Au and Ag nanoshells. <i>RSC Advances</i> , 2013, 3, 7718.	1.7	40
52	Distance-Mediated Plasmonic Dimers for Reusable Colorimetric Switches: A Measurable Peak Shift of More than 60 nm. <i>Small</i> , 2013, 9, 234-240.	5.2	61
53	In-stacking: a strategy for 3D nanoparticle assembly in densely-grafted polymer brushes. <i>Journal of Materials Chemistry</i> , 2012, 22, 1274-1277.	6.7	19
54	Multilayered Polypyrrole-Coated Carbon Nanotubes To Improve Functional Stability and Electrical Properties of Neural Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5492-5499.	1.5	36

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55	Nanoarray-Based Biomolecular Detection Using Individual Au Nanoparticles with Minimized Localized Surface Plasmon Resonance Variations. <i>Analytical Chemistry</i> , 2011, 83, 2605-2612.	3.2	64
56	Influence of Ionic Strength and Surfactant Concentration on Electrostatic Surficial Assembly of Cetyltrimethylammonium Bromide-Capped Gold Nanorods on Fully Immersed Glass. <i>Langmuir</i> , 2010, 26, 12433-12442.	1.6	56
57	Polysaccharide Templated Silver Nanowire for Ultrasensitive Electrical Detection of Nucleic Acids. <i>Analytical Chemistry</i> , 2008, 80, 7213-7217.	3.2	41