Alexander Vaskevich

List of Publications by Year
in descending order

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76 papers	3,868 citations	109321 35 h-index	123424 61 g-index
79 all docs	79 docs citations	79 times ranked	4595 citing authors

#	Article	IF	Citations
1	Improving the quality factors of plasmonic silver cavities for strong coupling with quantum emitters. Journal of Chemical Physics, 2021, 154, 014703.	3.0	4
2	Glutathione Self-Assembles into a Shell of Hydrogen-Bonded Intermolecular Aggregates on â€œNakedâ€• Silver Nanoparticles. Journal of Physical Chemistry B, 2021, 125, 895-906.	2.6	7
3	Empowering Electroless Plating to Produce Silver Nanoparticle Films for DNA Biosensing Using Localized Surface Plasmon Resonance Spectroscopy. ACS Applied Bio Materials, 2019, 2, 856-864.	4.6	17
4	Expanding the boundaries of metal deposition: High aspect ratio silver nanoplatelets created by merging nanobelts. Electrochimica Acta, 2018, 264, 233-243.	5.2	16
5	Nucleationâ€Controlled Solution Deposition of Silver Nanoplate Architectures for Facile Derivatization and Catalytic Applications. Advanced Materials, 2018, 30, e1805179.	21.0	23
6	Highly Sensitive Colorimetric Detection of Early Stage Aluminum Corrosion in Water Using Plasmonic Gold Nanoparticle Films. Advanced Optical Materials, 2018, 6, 1800599.	7.3	7
7	Morphological Control in Solution-Deposited Silver Nanoplatelet Films. ECS Meeting Abstracts, 2018, , .	0.0	0
8	Refractive Index Sensing Using Visible Electromagnetic Resonances of Supported Cu₂O Particles. ACS Applied Materials & Interfaces, 2017, 9, 8177-8186.	8.0	18
9	Application of Surface Click Reactions to Localized Surface Plasmon Resonance (LSPR) Biosensing. Chemistry - A European Journal, 2017, 23, 10148-10155.	3.3	10
10	Template-Free Electroless Plating of Gold Nanowires: Direct Surface Functionalization with Shape-Selective Nanostructures for Electrochemical Applications. ACS Applied Materials & Interfaces, 2017, 9, 31142-31152.	8.0	29
11	Real-time plasmon spectroscopy study of the solid-state oxidation and Kirkendall void formation in copper nanoparticles. Nanoscale, 2017, 9, 12573-12589.	5.6	36
12	A General Kinetic-Optical Model for Solid-State Reactions Involving the Nano Kirkendall Effect. The Case of Copper Nanoparticle Oxidation. Journal of Physical Chemistry C, 2016, 120, 16140-16152.	3.1	19
13	pHâ€Dependent Galvanic Replacement of Supported and Colloidal Cu₂O Nanocrystals with Gold and Palladium. Small, 2015, 11, 3942-3953.	10.0	22
14	Critical Issues in Localized Plasmon Sensing. Journal of Physical Chemistry C, 2014, 118, 8227-8244.	3.1	61
15	Chemical Deposition of Cu₂O Nanocrystals with Precise Morphology Control. ACS Nano, 2014, 8, 162-174.	14.6	140
16	Direct Observation of Aminoglycosideâ€“RNA Binding by Localized Surface Plasmon Resonance Spectroscopy. Analytical Chemistry, 2013, 85, 2200-2207.	6.5	21
17	Stabilization of Metal Nanoparticle Films on Glass Surfaces Using Ultrathin Silica Coating. Analytical Chemistry, 2013, 85, 10022-10027.	6.5	22
18	Phosphonate-stabilized silver nanoparticles: one-step synthesis and monolayer assembly. Journal of Materials Chemistry C, 2013, 1, 3573.	5.5	17

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19	Solid-State Thermal Dewetting of Just-Percolated Gold Films Evaporated on Glass: Development of the Morphology and Optical Properties. Journal of Physical Chemistry C, 2013, 117, 11337-11346.	3.1	88
20	Mechanism of morphology transformation during annealing of nanostructured gold films on glass. Physical Chemistry Chemical Physics, 2013, 15, 4656.	2.8	44
21	Localized Surface Plasmon Resonance (LSPR) Transducers Based on Random Evaporated Gold Island Films: Properties and Sensing Applications. , 2012, , 333-368.		10
22	Oscillatory Behavior of the Long-Range Response of Localized Surface Plasmon Resonance Transducers. Journal of Physical Chemistry C, 2012, 116, 26865-26873.	3.1	9
23	Comparative assessment of the sensitivity of localized surface plasmon resonance transducers and interferenceâ€based Fabryâ€PÃ©rot transducers. Annalen Der Physik, 2012, 524, 713-722.	2.4	6
24	Optimization of Localized Surface Plasmon Resonance Transducers for Studying Carbohydrateâ€“Protein Interactions. Analytical Chemistry, 2012, 84, 232-240.	6.5	83
25	Chemical Deposition and Stabilization of Plasmonic Copper Nanoparticle Films on Transparent Substrates. Chemistry of Materials, 2012, 24, 2501-2508.	6.7	83
26	Improved Sensitivity of Localized Surface Plasmon Resonance Transducers Using Reflection Measurements. Journal of Physical Chemistry Letters, 2011, 2, 1223-1226.	4.6	29
27	Tunable Localized Plasmon Transducers Prepared by Thermal Dewetting of Percolated Evaporated Gold Films. Journal of Physical Chemistry C, 2011, 115, 24642-24652.	3.1	114
28	Stabilization of Gold Nanoparticle Films on Glass by Thermal Embedding. ACS Applied Materials & Interfaces, 2011, 3, 978-987.	8.0	81
29	Versatile Scheme for the Step-by-Step Assembly of Nanoparticle Multilayers. Langmuir, 2011, 27, 1298-1307.	3.5	20
30	Sensitivity and Optimization of Localized Surface Plasmon Resonance Transducers. ACS Nano, 2011, 5, 748-760.	14.6	155
31	A Quantitative, Realâ€Time Assessment of Binding of Peptides and Proteins to Gold Surfaces. Chemistry - A European Journal, 2011, 17, 1327-1336.	3.3	35
32	Proteinâ€“surface interactions: challenging experiments and computations. Journal of Molecular Recognition, 2010, 23, 259-262.	2.1	41
33	Selfâ€Assembly of Nanostructures on Surfaces Using Metalâ€“Organic Coordination. Israel Journal of Chemistry, 2010, 50, 333-346.	2.3	10
34	On the formation mechanism of metal nanoparticle nanotubes. Thin Solid Films, 2010, 518, 1661-1666.	1.8	6
35	Rapid Formation of Coordination Multilayers Using Accelerated Self-Assembly Procedure (ASAP). Langmuir, 2010, 26, 7277-7284.	3.5	17
36	Morphology and Refractive Index Sensitivity of Gold Island Films. Chemistry of Materials, 2009, 21, 5875-5885.	6.7	124

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37	Mass Thickness Analysis of Gold Thin Films Using Room Temperature Gas-Phase Chlorination. Analytical Chemistry, 2009, 81, 2877-2883.	6.5	4
38	Raman Spectroelectrochemistry of Molecules within Individual Electromagnetic Hot Spots. Journal of the American Chemical Society, 2009, 131, 14390-14398.	13.7	87
39	Thirdâ€Order Nonlinear Optical Response of Goldâ€Island Films. Advanced Functional Materials, 2008, 18, 1281-1289.	14.9	39
40	Highly Stable Localized Plasmon Transducers Obtained by Thermal Embedding of Gold Island Films on Glass. Advanced Materials, 2008, 20, 3893-3899.	21.0	98
41	Biological Sensing and Interface Design in Gold Island Film Based Localized Plasmon Transducers. Analytical Chemistry, 2008, 80, 7487-7498.	6.5	100
42	Polymer-Coated Gold Island Films as Localized Plasmon Transducers for Gas Sensing. Journal of Physical Chemistry B, 2008, 112, 14530-14538.	2.6	64
43	Laterally Controlled Template Electrodeposition of Polyaniline. Israel Journal of Chemistry, 2008, 48, 359-366.	2.3	11
44	Silica-Stabilized Gold Island Films for Transmission Localized Surface Plasmon Sensing. Journal of the American Chemical Society, 2007, 129, 84-92.	13.7	136
45	Divergent Growth of Coordination Dendrimers on Surfaces. Journal of the American Chemical Society, 2006, 128, 8341-8349.	13.7	55
46	Reversible Binding of Gold Nanoparticles to Polymeric Solid Supports. Chemistry of Materials, 2006, 18, 1247-1260.	6.7	12
47	Assembly of Coordination Nanostructures via Ligand Derivatization of Oxide Surfaces. Langmuir, 2006, 22, 2130-2135.	3.5	25
48	Auâ€“Pd Alloy Gradients Prepared by Laterally Controlled Template Synthesis. Advanced Functional Materials, 2006, 16, 693-698.	14.9	16
49	Preparative Manipulation of Gold Nanoparticles by Reversible Binding to a Polymeric Solid Support. Chemistry - A European Journal, 2005, 11, 2836-2841.	3.3	13
50	Sensitivity of Transmission Surface Plasmon Resonance (T-SPR) Spectroscopy: Self-Assembled Multilayers on Evaporated Gold Island Films. Chemistry - A European Journal, 2005, 11, 5555-5562.	3.3	59
51	Underpotential Deposition of Nickel on {111}-Textured Gold Electrodes in Dimethyl Sulfoxide. Journal of the Electrochemical Society, 2005, 152, C744.	2.9	11
52	Branched Coordination Multilayers on Gold. Journal of the American Chemical Society, 2005, 127, 17877-17887.	13.7	72
53	Coordination-Based Gold Nanoparticle Layers. Journal of the American Chemical Society, 2005, 127, 9207-9215.	13.7	100
54	Template Synthesis of Nanotubes by Room-Temperature Coalescence of Metal Nanoparticles. Chemistry of Materials, 2005, 17, 3743-3748.	6.7	79

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55	Improved blocking properties of short-chain alkanethiol monolayers self-assembled on gold. Israel Journal of Chemistry, 2005, 45, 337-344.	2.3	11
56	Nanoparticle Nanotubes.. ChemInform, 2004, 35, no.	0.0	0
57	Layer-by-Layer Assembly of Ordinary and Composite Coordination Multilayers. Langmuir, 2004, 20, 10727-10733.	3.5	37
58	Widely-Applicable Gold Substrate for the Study of Ultrathin Overlayers. Journal of the American Chemical Society, 2004, 126, 5569-5576.	13.7	60
59	Biological Sensing Using Transmission Surface Plasmon Resonance Spectroscopy. Langmuir, 2004, 20, 7365-7367.	3.5	109
60	Ultrathin Gold Island Films on Silanized Glass. Morphology and Optical Properties. Chemistry of Materials, 2004, 16, 3476-3483.	6.7	193
61	Nanoparticle Nanotubes. Angewandte Chemie - International Edition, 2003, 42, 5576-5579.	13.8	174
62	Preparation of Graded Materials by Laterally Controlled Template Synthesis. Journal of the American Chemical Society, 2003, 125, 4718-4719.	13.7	35
63	A new molecular switch: redox-driven translocation mechanism of the copper cationElectronic supplementary information (ESI) available: Fig. S1: cyclic voltammetry of CuIILN2O2 in DMSO. See http://www.rsc.org/suppdata/cc/b2/b204145f/. Chemical Communications, 2002, , 1426-1427.	4.1	51
64	Transmission Surface-Plasmon Resonance (T-SPR) Measurements for Monitoring Adsorption on Ultrathin Gold Island Films. Chemistry - A European Journal, 2002, 8, 3849-3857.	3.3	107
65	Differential Plasmon Spectroscopy as a Tool for Monitoring Molecular Binding to Ultrathin Gold Films. Journal of the American Chemical Society, 2001, 123, 3177-3178.	13.7	92
66	Underpotential deposition of copper in acetonitrile. Journal of Electroanalytical Chemistry, 2000, 491, 87-94.	3.8	12
67	Controlled surface charging as a depth-profiling probe for mesoscopic layers. Nature, 2000, 406, 382-385.	27.8	143
68	UV/Vis Spectroscopy of Metalloporphyrin and Metallophthalocyanine Monolayers Self-Assembled on Ultrathin Gold Films. Journal of Physical Chemistry B, 2000, 104, 8238-8244.	2.6	148
69	A Metal-Ion Coordinated Hybrid Multilayer. Langmuir, 2000, 16, 4420-4423.	3.5	48
70	Spectroscopic Characterization of Self-Assembled Macrocycle Monolayers on Gold. Reviews in Analytical Chemistry, 1999, 18, .	3.2	11
71	Underpotentialâ€“overpotential transition of a Ag overlayer on Pt:. Journal of Electroanalytical Chemistry, 1998, 442, 147-150.	3.8	14
72	Coordination-Controlled Self-Assembled Multilayers on Gold. Journal of the American Chemical Society, 1998, 120, 13469-13477.	13.7	102

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73	Irreversibly adsorbed silver on Pt(111) and transformation of the electrosorption behaviour induced by thermal annealing. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3777.	1.7	17
74	Underpotential-overpotential transition in a silver overlayer on platinum. Part 2. reversible 2dâ€“3d rearrangement. Journal of Electroanalytical Chemistry, 1996, 412, 117-123.	3.8	15
75	Underpotential-overpotential transition of silver overlayer on platinum Part 1. Formation of a Pt + Ag surface alloy. Journal of Electroanalytical Chemistry, 1995, 383, 167-174.	3.8	47
76	Anodized Niobium Electrodes under Cathodic Polarization: Electrochemical and Optical Studies. Journal of the Electrochemical Society, 1995, 142, 1501-1508.	2.9	12