

Shaaker Hajati

List of Publications by Year in descending order

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96
papers

6,342
citations

41258

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66788

78
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98
all docs

98
docs citations

98
times ranked

5838
citing authors

#	ARTICLE	IF	CITATIONS
1	S-scheme NIR-edge Ag ₃ CuS ₂ /VO ₂ heterostructure for photo-oxidation/reduction of methylene blue/Cr(VI). <i>Applied Surface Science</i> , 2022, 590, 153118.	3.1	18
2	Molecular Imprinted Poly(2,5-benzimidazole)-Modified VO ₂ –CuWO ₄ Homotype Heterojunction for Photoelectrochemical Dopamine Sensing. <i>Analytical Chemistry</i> , 2022, 94, 6781-6790.	3.2	35
3	Ti-Based Solid-State Imprinted-Cu ₂ O/CuInSe ₂ Heterojunction Photoelectrochemical platform for Highly Selective Dopamine Monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128824.	4.0	58
4	Design and construction of ZIF(8 and 67) supported Fe ₃ O ₄ composite as advanced materials of high performance supercapacitor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114442.	1.3	32
5	Ru-containing magnetic yolk-shell structured nanocomposite: a powerful, recoverable and highly durable nanocatalyst. <i>RSC Advances</i> , 2021, 11, 10243-10252.	1.7	6
6	High-rate supercapacitor based on NiCo-MOF-derived porous NiCoP for efficient energy storage. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 13117-13128.	1.1	19
7	Hierarchical Fe ₂ O ₃ /Na ₂ WO ₄ Nanofibers Supported on Conductive Carbon Cloth as a High-Performance Supercapacitor. <i>Energy & Fuels</i> , 2021, 35, 11551-11562.	2.5	13
8	Highly selective MXene/V ₂ O ₅ /CuWO ₄ -based ultra-sensitive room temperature ammonia sensor. <i>Journal of Hazardous Materials</i> , 2021, 416, 126196.	6.5	36
9	Morphology control of Ni doped rod like MIL-88A derived FeS ₂ embedded in nitrogen-rich carbon as an efficient electrocatalyst for the oxygen reduction reaction. <i>Journal of Molecular Structure</i> , 2021, 1237, 130329.	1.8	5
10	Synthesis of rod-like ternary Cu(Cd)-In-S and quaternary Cu-Cd-In-S by controlled ion exchange of MIL-68(In) derived indium sulfide for high energy-storage capacitor. <i>Synthetic Metals</i> , 2021, 278, 116815.	2.1	5
11	Co-electrophoretic deposition of Mn ₂ O ₃ /activated carbon on CuO nanowire array growth on copper foam as a binder-free electrode for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27268-27278.	1.1	4
12	Impact of silver incorporation on cobalt rich 3-D porous carbon arising from solid state thermolysis of ZIF-67 as a pseudocapacitor electrode: Improvement of diffusion-controlled charge storage. <i>Solid State Ionics</i> , 2021, 368, 115697.	1.3	10
13	Sensitive, selective and rapid ammonia-sensing by gold nanoparticle-sensitized V ₂ O ₅ /CuWO ₄ heterojunctions for exhaled breath analysis. <i>Applied Surface Science</i> , 2020, 501, 144270.	3.1	49
14	Colorimetric determination of F ⁻ , Br ⁻ and I ⁻ ions by Ehrlich's bio-reagent oxidation over enzyme mimic like gold nanoparticles: Peroxidase-like activity and multivariate optimization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 226, 117606.	2.0	14
15	L-phenylalanine-imprinted polydopamine-coated CdS/CdSe n-n type II heterojunction as an ultrasensitive photoelectrochemical biosensor for the PKU monitoring. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112346.	5.3	76
16	Highly selective few-ppm NO gas-sensing based on necklace-like nanofibers of ZnO/CdO n-n type I heterojunction. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126774.	4.0	50
17	Comparative studies on electrochemical energy storage of NiFe-S nanoflake and NiFe-OH towards aqueous supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4499-4510.	1.1	8
18	Photo-Sensitive PbS ₂ /I ₆ crystal incorporated polydopamine biointerface coated on nanoporous TiO ₂ as an efficient signal-on photoelectrochemical bioassay for ultrasensitive detection of Cr(VI) ions. <i>Biosensors and Bioelectronics</i> , 2019, 132, 105-114.	5.3	76

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19	Controlled thermolysis of MIL-101(Fe, Cr) for synthesis of Fe _x O _y /porous carbon as negative electrode and Cr ₂ O ₃ /porous carbon as positive electrode of supercapacitor. <i>Applied Surface Science</i> , 2019, 469, 192-203.	3.1	62
20	One-pot electrochemical growth of sponge-like polyaniline-intercalated phosphorous-doped graphene oxide on nickel foam as binder-free electrode material of supercapacitor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 100, 45-53.	1.3	23
21	Synthesis and electrochemical properties of Mg-doped chromium-based metal organic framework/reduced graphene oxide composite for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8421-8430.	1.1	14
22	Electrophoretic deposition of mixed copper oxide/GO as cathode and N-doped GO as anode for electrochemical energy storage. <i>Electrochimica Acta</i> , 2018, 268, 392-402.	2.6	7
23	Achieving enhanced blue-light-driven photocatalysis using nanosword-like VO ₂ /CuWO ₄ type II n-heterojunction. <i>Chemical Engineering Journal</i> , 2018, 339, 189-203.	6.6	123
24	Fabrication of hybrid supercapacitor based on rod-like HKUST-1@polyaniline as cathode and reduced graphene oxide as anode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 99, 16-23.	1.3	49
25	Investigation on the dielectric properties of titanium-loaded ionic liquid-based nano-organosilica as a novel material. <i>Advanced Powder Technology</i> , 2018, 29, 813-817.	2.0	1
26	Simultaneous removal of Cu ²⁺ and Cr ³⁺ ions from aqueous solution based on Complexation with Eriochrome cyanine-R and derivative spectrophotometric method. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3918.	1.7	11
27	Synthesis and characterization of antibacterial chromium iron oxide nanoparticle-loaded activated carbon for ultrasound-assisted wastewater treatment. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3981.	1.7	18
28	A new silver (I) ions optical sensor based on nanoporous thin films of sol-gel by rose bengal dye. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 20-29.	4.0	21
29	Sonochemical-assisted synthesis of CuO/Cu ₂ O/Cu nanoparticles as efficient photocatalyst for simultaneous degradation of pollutant dyes in rotating packed bed reactor: LED illumination and central composite design optimization. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 601-610.	3.8	202
30	Surfactant-directed one-pot preparation of novel Ti-containing mesomaterial with improved catalytic activity and reusability. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4471.	1.7	9
31	A simple ultrasensitive electrochemical sensor for simultaneous determination of gallic acid and uric acid in human urine and fruit juices based on zirconia-choline chloride-gold nanoparticles-modified carbon paste electrode. <i>Biosensors and Bioelectronics</i> , 2018, 114, 30-36.	5.3	93
32	Facile Synthesis of Mixed Metal-Organic Frameworks: Electrode Materials for Supercapacitors with Excellent Areal Capacitance and Operational Stability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23063-23073.	4.0	199
33	Screening and optimization of highly effective ultrasound-assisted simultaneous adsorption of cationic dyes onto Mn-doped Fe ₃ O ₄ -nanoparticle-loaded activated carbon. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 1-12.	3.8	165
34	Preparation of nanomaterials for the ultrasound-enhanced removal of Pb ²⁺ ions and malachite green dye: Chemometric optimization and modeling. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 677-691.	3.8	121
35	Ag ₃ PO ₄ /AgBr/Ag-HKUST-1-MOF composites as novel blue LED light active photocatalyst for enhanced degradation of ternary mixture of dyes in a rotating packed bed reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 114, 24-38.	1.8	94
36	Synthesis of ZnO-nanorod-based materials for antibacterial, antifungal activities, DNA cleavage and efficient ultrasound-assisted dyes adsorption. <i>Ecotoxicology and Environmental Safety</i> , 2017, 142, 330-337.	2.9	84

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37	Ultrasound-assisted binary adsorption of dyes onto Mn@ CuS/ZnS-NC-AC as a novel adsorbent: Application of chemometrics for optimization and modeling. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 54, 377-388.	2.9	137
38	Nano-sized molecularly imprinted polymer for selective ultrasound-assisted microextraction of pesticide Carbaryl from water samples: Spectrophotometric determination. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 313-322.	5.0	47
39	In-situ growth of ultrathin Ni ₆ MnO ₈ nanosheets on nickel foam as a binder-free positive electrode for asymmetric supercapacitor: Effects of alkaline aqueous and redox additive electrolytes. <i>Journal of Molecular Liquids</i> , 2017, 244, 269-278.	2.3	23
40	CoxZn _{1-x} ZIF-derived binary Co ₃ O ₄ /ZnO wrapped by 3D reduced graphene oxide for asymmetric supercapacitor: Comparison of pure and heat-treated bimetallic MOF. <i>Ceramics International</i> , 2017, 43, 14413-14425.	2.3	91
41	Cobalt terephthalate MOF-templated synthesis of porous nano-crystalline Co ₃ O ₄ by the new indirect solid state thermolysis as cathode material of asymmetric supercapacitor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 94, 158-166.	1.3	58
42	Reflection electron energy loss spectroscopy as efficient technique for the determination of optical properties of polystyrene intermixed with gold nanoparticles. <i>Applied Surface Science</i> , 2017, 392, 697-700.	3.1	13
43	Central composite design and genetic algorithm applied for the optimization of ultrasonic-assisted removal of malachite green by ZnO Nanorod-loaded activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 167, 157-164.	2.0	114
44	Novel nanorose-like Ce(III)-doped and undoped Cu(II)-biphenyl-4,4-dicarboxylic acid (Cu(II)-BPDCA) MOSs as visible light photocatalysts: synthesis, characterization, photodegradation of toxic dyes and optimization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11278-11287.	1.3	73
45	Rapid adsorption of ternary dye pollutants onto copper (I) oxide nanoparticle loaded on activated carbon: Experimental optimization via response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1769-1779.	3.3	82
46	Sonochemical assisted hydrothermal synthesis of ZnO: Cr nanoparticles loaded activated carbon for simultaneous ultrasound-assisted adsorption of ternary toxic organic dye: Derivative spectrophotometric, optimization, kinetic and isotherm study. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 119-131.	3.8	110
47	Synthesis of magnetic Fe ₃ O ₄ -based nanomaterial for ultrasonic assisted dyes adsorption: Modeling and optimization. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 418-431.	3.8	174
48	Performance of CuS nanoparticle loaded on activated carbon in the adsorption of methylene blue and bromophenol blue dyes in binary aqueous solutions: Using ultrasound power and optimization by central composite design. <i>Journal of Molecular Liquids</i> , 2016, 219, 667-676.	2.3	118
49	Photocatalytic degradation of disulfine blue using titanium dioxide nanoparticles under ultraviolet light irradiation: A response surface methodology approach. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1657-1663.	1.3	5
50	Modeling and optimization of simultaneous removal of ternary dyes onto copper sulfide nanoparticles loaded on activated carbon using second-derivative spectrophotometry. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 65, 212-224.	2.7	91
51	BiPO ₄ /Bi ₂ S ₃ -HKUST-1-MOF as a novel blue light-driven photocatalyst for simultaneous degradation of toluidine blue and auramine-O dyes in a new rotating packed bed reactor: optimization and comparison to a conventional reactor. <i>RSC Advances</i> , 2016, 6, 63667-63680.	1.7	103
52	Removal of methylene blue from aqueous solution by walnut carbon: optimization using response surface methodology. <i>Desalination and Water Treatment</i> , 2016, 57, 3179-3193.	1.0	25
53	Ultrasonically assisted hydrothermal synthesis of activated carbon@HKUST-1-MOF hybrid for efficient simultaneous ultrasound-assisted removal of ternary organic dyes and antibacterial investigation: Taguchi optimization. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 383-393.	3.8	267
54	Photocatalytic degradation of binary mixture of toxic dyes by HKUST-1 MOF and HKUST-1-SBA-15 in a rotating packed bed reactor under blue LED illumination: central composite design optimization. <i>RSC Advances</i> , 2016, 6, 17204-17214.	1.7	140

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55	Determination of electronic properties of nanostructures using reflection electron energy loss spectroscopy: Nano-metalized polymer as case study. <i>Applied Surface Science</i> , 2016, 377, 44-47.	3.1	9
56	Simultaneous extraction and preconcentration of Cu ²⁺ , Ni ²⁺ and Zn ²⁺ ions using Ag nanoparticle-loaded activated carbon: Response surface methodology. <i>Advanced Powder Technology</i> , 2016, 27, 426-435.	2.0	23
57	Preparation and characterization of an AC@Fe ₃ O ₄ @Au hybrid for the simultaneous removal of Cd ²⁺ , Pb ²⁺ , Cr ³⁺ and Ni ²⁺ ions from aqueous solution via complexation with 2-((2,4-dichloro-benzylidene)-amino)-benzenethiol: Taguchi optimization. <i>RSC Advances</i> , 2016, 6, 19780-19791.	1.7	67
58	Modeling of quaternary dyes adsorption onto ZnO@NR@AC artificial neural network: Analysis by derivative spectrophotometry. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 186-197.	2.9	240
59	Highly efficient simultaneous ultrasonic assisted adsorption of brilliant green and eosin B onto ZnS nanoparticles loaded activated carbon: Artificial neural network modeling and central composite design optimization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 257-267.	2.0	160
60	Experimental design for simultaneous analysis of malachite green and methylene blue; derivative spectrophotometry and principal component-artificial neural network. <i>RSC Advances</i> , 2015, 5, 38939-38947.	1.7	58
61	Removal of methyl orange by multiwall carbon nanotube accelerated by ultrasound device: Optimized experimental design. <i>Advanced Powder Technology</i> , 2015, 26, 1087-1093.	2.0	36
62	Simultaneous ultrasound-assisted ternary adsorption of dyes onto copper-doped zinc sulfide nanoparticles loaded on activated carbon: Optimization by response surface methodology. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 203-212.	2.0	182
63	SnO ₂ nanoparticle-loaded activated carbon for simultaneous removal of Acid Yellow 41 and Sunset Yellow; derivative spectrophotometric, artificial neural network and optimization approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 1002-1012.	2.0	21
64	Enhanced simultaneous removal of malachite green and safranin O by ZnO nanorod-loaded activated carbon: modeling, optimization and adsorption isotherms. <i>New Journal of Chemistry</i> , 2015, 39, 7998-8005.	1.4	130
65	Application of chitosan-citric acid nanoparticles for removal of chromium (VI). <i>International Journal of Biological Macromolecules</i> , 2015, 80, 431-444.	3.6	79
66	Random forest model for the ultrasonic-assisted removal of chrysoidine G by copper sulfide nanoparticles loaded on activated carbon; response surface methodology approach. <i>RSC Advances</i> , 2015, 5, 59335-59343.	1.7	72
67	Ultrasound-assisted removal of Al ³⁺ ions and Alizarin red S by activated carbon engrafted with Ag nanoparticles: central composite design and genetic algorithm optimization. <i>RSC Advances</i> , 2015, 5, 59522-59532.	1.7	109
68	Preparation and characterization of MWCNTs functionalized by N-(3-nitrobenzylidene)-N'-trimethoxysilylpropyl-ethane-1,2-diamine for the removal of aluminum(III) ions via complexation with eriochrome cyanine R: spectrophotometric detection and optimization. <i>RSC Advances</i> , 2015, 5, 61060-61069.	1.7	94
69	Preparation of Iodide Selective Carbon Paste Electrode with Modified Carbon Nanotubes by Potentiometric Method and Effect of CuS@NPs on Its Response. <i>Electroanalysis</i> , 2015, 27, 1516-1522.	1.5	46
70	Rapid removal of Auramine-O and Methylene blue by ZnS:Cu nanoparticles loaded on activated carbon: A response surface methodology approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 53, 80-91.	2.7	136
71	Efficient adsorption of Europhtal onto activated carbon modified with ligands (1E,2E)-1,2-bis(pyridin-4-ylmethylene)hydrazine (M) and (1E,2E)-1,2-bis(pyridin-3-ylmethylene)hydrazine (SCH-4); response surface methodology. <i>RSC Advances</i> , 2015, 5, 42376-42387.	1.7	26
72	Ternary dye adsorption onto MnO ₂ nanoparticle-loaded activated carbon: derivative spectrophotometry and modeling. <i>RSC Advances</i> , 2015, 5, 72300-72320.	1.7	129

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73	Schiff Base Impregnated Plasticized Polyvinyl Chloride Optical Sensor for Selective and Efficient Detection of Copper (II) Ion: Central Composite Design. <i>IEEE Sensors Journal</i> , 2015, 15, 6604-6610.	2.4	11
74	Synthesis of regenerable Zn(OH) ₂ nanoparticle-loaded activated carbon for the ultrasound-assisted removal of malachite green: optimization, isotherm and kinetics. <i>RSC Advances</i> , 2015, 5, 79119-79128.	1.7	53
75	Simultaneous removal of methylene blue and Pb ²⁺ ions using ruthenium nanoparticle-loaded activated carbon: response surface methodology. <i>RSC Advances</i> , 2015, 5, 83427-83435.	1.7	83
76	New ion-imprinted polymer-functionalized mesoporous SBA-15 for selective separation and preconcentration of Cr(III) ions: modeling and optimization. <i>RSC Advances</i> , 2015, 5, 105789-105799.	1.7	90
77	Improvement in the performance of a zinc ion-selective potentiometric sensor using modified core/shell Fe ₃ O ₄ @SiO ₂ nanoparticles. <i>RSC Advances</i> , 2015, 5, 105925-105933.	1.7	7
78	Ionic liquid-based ordered mesoporous organosilica-supported copper as a novel and efficient nanocatalyst for the one-pot synthesis of Biginelli products. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 269-275.	2.2	54
79	Local, cheap and nontoxic activated carbon as efficient adsorbent for the simultaneous removal of cadmium ions and malachite green: Optimization by surface response methodology. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 760-767.	2.9	91
80	A novel polyvinyl chloride-membrane optical sensor for the determination of Cu ²⁺ ion based on synthesized (N ¹ E,N ² E)-N ¹ ,N ² -bis(pyridine-2-ylmethylene)oxalohydrazide: Experimental design and optimization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 878-884.	2.0	37
81	Application of central composite design for simultaneous removal of methylene blue and Pb ²⁺ ions by walnut wood activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 479-490.	2.0	149
82	Competitive adsorption of Direct Yellow 12 and Reactive Orange 12 on ZnS:Mn nanoparticles loaded on activated carbon as novel adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 564-571.	2.9	58
83	A novel PVC-membrane optical sensor for high sensitive and selective determination of Cu ²⁺ ion based on synthesized (E)-N ² -(pyridin-2-ylmethylene)isonicotin-ohydrazide. <i>Journal of Molecular Liquids</i> , 2014, 199, 483-488.	2.3	29
84	Synthesis of nickel sulfide nanoparticles loaded on activated carbon as a novel adsorbent for the competitive removal of Methylene blue and Safranin-O. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 123, 402-409.	2.0	93
85	Application of high order derivative spectrophotometry to resolve the spectra overlap between BG and MB for the simultaneous determination of them: Ruthenium nanoparticle loaded activated carbon as adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2421-2427.	2.9	45
86	Reducing thermal contact resistance using nanocoating. <i>Applied Thermal Engineering</i> , 2014, 70, 641-646.	3.0	16
87	Equilibrium, kinetic and isotherm of some metal ion biosorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 987-992.	2.9	66
88	Saccharomyces cerevisiae for the biosorption of basic dyes from binary component systems and the high order derivative spectrophotometric method for simultaneous analysis of Brilliant green and Methylene blue. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 227-233.	2.9	96
89	Three-Dimensional X-Ray Photoelectron Tomography on the Nanoscale: Limits of Data Processing by Principal Component Analysis. <i>Microscopy and Microanalysis</i> , 2013, 19, 751-760.	0.2	5
90	XPS for non-destructive depth profiling and 3D imaging of surface nanostructures. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2741-2755.	1.9	42

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91	Non-Destructive Depth Profiling by XPS Peak Shape Analysis. Journal of Surface Analysis (Online), 2009, 15, 220-224.	0.1	15
92	Noise reduction procedures applied to XPS imaging of depth distribution of atoms on the nanoscale. Surface Science, 2008, 602, 3064-3070.	0.8	50
93	Nondestructive quantitative XPS imaging of depth distribution of atoms on the nanoscale. Surface and Interface Analysis, 2008, 40, 688-691.	0.8	23
94	Validity of Yubero-Tougaard theory to quantitatively determine the dielectric properties of surface nanofilms. Physical Review B, 2008, 77, .	1.1	46
95	Characterization of Au nano-cluster formation on and diffusion in polystyrene using XPS peak shape analysis. Surface Science, 2007, 601, 3261-3267.	0.8	50
96	XPS imaging of depth profiles and amount of substance based on Tougaard's algorithm. Surface Science, 2006, 600, 3015-3021.	0.8	29