Wolfgang Kautek

List of Publications by Year
in descending order

191	7,080	76196	69108
papers	citations	40 h-index	77 g-index

194	194	194	5014
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Femtosecond laser generation of bimetallic oxide nanoparticles with potential X-ray absorbing and magnetic functionalities for medical imaging applications. Ceramics International, 2021, 47, 29363-29370.	2.3	7
2	Laser-Induced Non-thermal Processes. , 2021, , 61-82.		0
3	Physicochemical characterization of electrodeposited printing plates from the early 1840s in Vienna. Microchemical Journal, 2020, 152, 104320.	2.3	0
4	Pursuit of optimal synthetic conditions for obtaining colloidal zero-valent iron nanoparticles by scanning pulsed laser ablation in liquids. Journal of Industrial and Engineering Chemistry, 2020, 81, 340-351.	2.9	15
5	Aqueous Spray Pyrolysis of Cu 2 O Films: Influence of Reducing Agent and Acetic Acid Addition. ChemNanoMat, 2020, 6, 663-671.	1.5	5
6	Study of the physicochemical surface alterations and incubation phenomena induced on iron targets by nanosecond pulsed laser ablation in liquids: Effect on productivity and characteristics of the synthesized nanoscale zero-valent iron (nZVI) particles. Applied Surface Science, 2020, 511, 145438.	3.1	11
7	Laser-Induced Non-thermal Processes. , 2020, , 1-23.		4
8	Apertureless Scanning Near-Field Optical Lithography. Springer Series in Materials Science, 2020, , 113-132.	0.4	1
9	Highly Photosensitive Daguerreotypes and their Reproduction: Physicoâ€chemical Elucidation of Innovative Processes in Photography Developed around 1840 in Vienna. ChemPlusChem, 2019, 84, 1730-1738.	1.3	4
10	Duplication of uniqueness: electrotyping in nature printing and its application in contemporary art. Heritage Science, 2019, 7, 20.	1.0	1
11	Electrodeposition of Fe-Sn from the chloride-based electrolyte. Transactions of the Institute of Metal Finishing, 2019, 97, 247-253.	0.6	1
12	Nanocrystalline Ga₂O₃ films deposited by spray pyrolysis from water-based solutions on glass and TCO substrates. Journal of Materials Chemistry C, 2019, 7, 69-77.	2.7	43
13	Rapid Processing of In-Doped ZnO by Spray Pyrolysis from Environment-Friendly Precursor Solutions. Coatings, 2019, 9, 245.	1.2	7
14	Femtosecond laser generation of microbumps and nanojets on single and bilayer Cu/Ag thin films. Physical Chemistry Chemical Physics, 2019, 21, 11846-11860.	1.3	24
15	Design and Development of Oleoresins Rich in Carotenoids Coated Microbeads. Coatings, 2019, 9, 235.	1.2	20
16	Tartrate-Based Electrolyte for Electrodeposition of Feâ€“Sn Alloys. Coatings, 2019, 9, 313.	1.2	1
17	The role of glycine in the iron-phosphorous alloy electrodeposition. Electrochimica Acta, 2019, 309, 450-459.	2.6	10
18	Electrodeposition and corrosion behaviour of nanocrystalline Feâ€“P coatings. Transactions of the Institute of Metal Finishing, 2019, 97, 89-94.	0.6	10

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19	Influence of the aqueous solution composition on the morphology of Zn_{1â^'x}Mg_xO films deposited by spray pyrolysis. Journal of Materials Chemistry C, 2019, 7, 3889-3900.	2.7	16
20	Electrodeposition of Nanocrystalline Fe-P Coatings: Influence of Bath Temperature and Glycine Concentration on Structure, Mechanical and Corrosion Behavior. Coatings, 2019, 9, 189.	1.2	9
21	Multiple wavelength stratigraphy by laser-induced breakdown spectroscopy of Ni-Co alloy coatings on steel. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 146, 36-40.	1.5	6
22	Mg-doped ZnO films prepared by chemical bath deposition. Journal of Materials Science, 2018, 53, 5159-5171.	1.7	20
23	Laserâ€Assisted Synthesis of Colloidal FeW_xO_y and Fe/Fe_xO_y Nanoparticles in Water and Ethanol. ChemPhysChem, 2018, 19, 1414-1419.	1.0	21
24	Pulsed laser ablation and incubation of nickel, iron and tungsten in liquids and air. Applied Surface Science, 2018, 433, 772-779.	3.1	53
25	The Role of Defects in Pulsed Laser Matter Interaction. Springer Series in Materials Science, 2018, , 39-61.	0.4	4
26	Subwavelength Nanostructuring of Gold Films by Apertureless Scanning Probe Lithography Assisted by a Femtosecond Fiber Laser Oscillator. Nanomaterials, 2018, 8, 536.	1.9	12
27	Alkoxylated Î²-Naphthol as an Additive for Tin Plating from Chloride and Methane Sulfonic Acid Electrolytes. Coatings, 2018, 8, 79.	1.2	6
28	Solution-processed all-oxide solar cell based on electrodeposited Cu2O and ZnMgO by spray pyrolysis. Journal of Materials Science, 2018, 53, 12231-12243.	1.7	28
29	Depth profiling of galvanoaluminiumâ€“nickel coatings on steel by UV- and VIS-LIBS. Applied Surface Science, 2017, 418, 508-516.	3.1	15
30	50-nanometer femtosecond pulse laser induced periodic surface structures on nitrogen-doped diamond. Diamond and Related Materials, 2017, 74, 114-118.	1.8	15
31	Spot size and pulse number dependence of femtosecond laser ablation thresholds of silicon and stainless steel. Applied Surface Science, 2017, 396, 1736-1740.	3.1	64
32	Laserâ€Assisted Synthesis of Colloidal Ni/NiO_x Core/Shell Nanoparticles in Water and Alcoholic Solvents. ChemPhysChem, 2017, 18, 1118-1124.	1.0	20
33	Femto- and nanosecond pulse laser ablation dependence on irradiation area: The role of defects in metals and semiconductors. Applied Surface Science, 2017, 418, 487-490.	3.1	23
34	A Multivariate Curve Resolution evaluation of an in-situ ATR-FTIR spectroscopy investigation of the electrochemical reduction of graphene oxide. Electrochimica Acta, 2017, 255, 160-167.	2.6	26
35	Investigation of the wavelength dependence of laser stratigraphy on Cu and Ni coatings using LIBS compared to a pure thermal ablation model. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	3
36	Optimizing pulse compressibility in completely all-fibered Ytterbium chirped pulse amplifiers for in vivo two photon laser scanning microscopy. Biomedical Optics Express, 2017, 8, 3526.	1.5	5

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37	Liquid-assisted pulsed laser ablation: A novel route to produce multifunctional contrast agents for multimodal imaging diagnosis. , 2017, , .		0
38	Repassivation Investigations on Aluminium: Physical Chemistry of the Passive State. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1303-1327.	1.4	4
39	Fundamentals of ultrafast laserâ€“material interaction. MRS Bulletin, 2016, 41, 960-968.	1.7	185
40	In-situand non-destructive focus determination device for high-precision laser applications. Journal of Optics (United Kingdom), 2016, 18, 095401.	1.0	10
41	In Situ FTIR and in Situ QMB Study of the Electrochemistry of Graphene Oxide on Platinum. Journal of Physical Chemistry C, 2016, 120, 15563-15568.	1.5	9
42	Sub-100 fs pulses from an all-polarization maintaining Yb-fiber oscillator with an anomalous dispersion higher-order-mode fiber. Optics Express, 2015, 23, 26139.	1.7	14
43	Laser cleaning of paper: Cleaning efficiency and irradiation dose. Studies in Conservation, 2015, 60, S97-S105.	0.6	4
44	Merging Spot Size and Pulse Number Dependence of Femtosecond Laser Ablation Thresholds: Modeling and Demonstration with High Impact Polystyrene. Journal of Physical Chemistry C, 2015, 119, 22992-22998.	1.5	22
45	In Situ Scanning Force Microscopy and In Situ Quartz Microbalance Investigations on the Influence of the Anion Adsorption on the Electrocrystallization of Surface Layer Proteins. Journal of Physical Chemistry C, 2014, 118, 29860-29865.	1.5	0
46	Laser-induced cantilever behaviour in apertureless scanning near-field optical microscopes. Measurement Science and Technology, 2014, 25, 075604.	1.4	6
47	Non-Thermal Material Response to Laser Energy Deposition. Springer Series in Materials Science, 2014, , 43-66.	0.4	5
48	Pulse laser machining and particulate separation from high impact polystyrene. Applied Surface Science, 2014, 288, 9-14.	3.1	0
49	Interaction of pulse laser radiation of 532nm with model coloration layers for medieval stone artefacts. Applied Surface Science, 2014, 302, 314-317.	3.1	1
50	Optical near-field excitation at commercial scanning probe microscopy tips: a theoretical and experimental investigation. Physical Chemistry Chemical Physics, 2014, 16, 2289-2296.	1.3	40
51	Middle-ultraviolet laser cleaning of particulates from sized ground wood cellulose and pure cellulose paper. Journal of Cultural Heritage, 2014, 15, 602-608.	1.5	7
52	Laser-induced electrochemical de- and repassivation investigations on plasma-oxidized aluminium alloys. Applied Surface Science, 2014, 302, 184-188.	3.1	4
53	Atomic emission stratigraphy by laser-induced plasma spectroscopy: Quantitative depth profiling of metal thin film systems. Applied Surface Science, 2014, 302, 189-193.	3.1	21
54	Pulse laser-induced particle separation from polymethyl methacrylate: a mechanistic study. Applied Physics A: Materials Science and Processing, 2013, 111, 309-317.	1.1	3

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55	Mechanistic comparison of pulse laser induced phase separation of particulates from cellulose paper at 213 nm and 532 nm. Applied Physics A: Materials Science and Processing, 2013, 110, 501-509.	1.1	9
56	Pulse laser particulate separation from polycarbonate: surface acoustic wave and thermomechanical mechanisms. Applied Physics A: Materials Science and Processing, 2013, 111, 539-548.	1.1	14
57	Laser cleaning of particulates from paper: Comparison between sized ground wood cellulose and pure cellulose. Applied Surface Science, 2013, 276, 53-61.	3.1	14
58	Electrochemical control of adsorption dynamics of surface layer proteins on gold. Physical Chemistry Chemical Physics, 2011, 13, 3478-3483.	1.3	6
59	Periodic nanoscale structures on polyimide surfaces generated by temporally tailored femtosecond laser pulses. Physical Chemistry Chemical Physics, 2011, 13, 4155.	1.3	49
60	Structural control of surface layer proteins at electrified interfaces investigated by in situ Fourier transform infrared spectroscopy. Physical Chemistry Chemical Physics, 2011, 13, 13232.	1.3	13
61	Femtosecond laser interaction withÂpulsed-laser deposited carbon thin films ofÂnanoscale thickness. Applied Physics A: Materials Science and Processing, 2011, 102, 27-33.	1.1	6
62	Lasers in Cultural Heritage: The Non-Contact Intervention. Springer Series in Materials Science, 2010, , 331-349.	0.4	8
63	Ultrafast Laser Micro- and Nanostructuring. Springer Series in Materials Science, 2010, , 189-213.	0.4	5
64	Thermal diffusion control of femtosecond laser generated modifications of nanoscale pulsed-laser deposited diamond-like carbon films. , 2009, , .		0
65	On the homogeneity region, growth modes and optoelectronic properties of chalcopyrite-type CuInS2. Physica Status Solidi (B): Basic Research, 2008, 245, 1761-1771.	0.7	22
66	Femtosecond laser processing of biopolymers at high repetition rate. Physical Chemistry Chemical Physics, 2008, 10, 6174.	1.3	29
67	Pulse plating of nickel: influence of electrochemical parameters and composition of electrolyte. Transactions of the Institute of Metal Finishing, 2007, 85, 22-26.	0.6	22
68	Physical Chemistry of Ultrafast Laser Interactions with Solids. , 2007, , 215-229.		2
69	Simultaneous UV-IR Nd:YAG Laser Cleaning of Leather Artifacts. , 2007, , 221-227.		7
70	Traditional and Laser Cleaning Methods of Historic Picture Post Cards. Springer Proceedings in Physics, 2007, , 281-286.	0.1	4
71	Laser Cleaning of Undyed Silk: Indications of Chemical Change. , 2007, , 313-320.		2
72	Pulse reverse plating of Niâ€“Co alloys: Deposition kinetics of Watts, sulfamate and chloride electrolytes. Electrochimica Acta, 2006, 52, 1145-1151.	2.6	49

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73	<title>Lasers in conservation of artworks: the European Community research</title>. , 2005, , .		0
74	Ultra-short pulse laser safety - a challenge to materials science. , 2005, , .		1
75	Femto- and nanosecond laser treatment of doped polymethylmethacrylate. Applied Surface Science, 2005, 247, 406-411.	3.1	53
76	Monodisperse gold nanoparticles formed on bacterial crystalline surface layers (S-layers) by electroless deposition. Materials Science and Engineering C, 2005, 25, 727-732.	3.8	21
77	Depth profile characterization of electrodeposited multi-thin-film structures by low angle of incidence X-ray diffractometry. Thin Solid Films, 2005, 489, 86-93.	0.8	17
78	Electrodeposition of copper and cobalt nanostructures using self-assembled monolayer templates. Surface Science, 2005, 597, 32-41.	0.8	23
79	Physico-chemical aspects of femtosecond-pulse-laser-induced surface nanostructures. Applied Physics A: Materials Science and Processing, 2005, 81, 65-70.	1.1	86
80	On the damage behavior of dielectric films when illuminated with multiple femtosecond laser pulses. Optical Engineering, 2005, 44, 051107.	0.5	112
81	Composition influence of non-oxidic ceramics on self-assembled nanostructures due to fs-laser irradiation. Thin Solid Films, 2004, 453-454, 537-541.	0.8	53
82	Interaction area dependence of the ablation threshold of ion-doped glass. Thin Solid Films, 2004, 453-454, 527-530.	0.8	19
83	Laser-induced alteration of contaminated papers. Applied Physics A: Materials Science and Processing, 2004, 79, 941-944.	1.1	7
84	Surface damage and color centers generated by femtosecond pulses in borosilicate glass and silica. Applied Physics A: Materials Science and Processing, 2004, 79, 1075-1077.	1.1	21
85	Characterization of laser-treated paper. Applied Physics A: Materials Science and Processing, 2004, 79, 181-186.	1.1	27
86	Femtosecond laser interaction with silicon under water confinement. Thin Solid Films, 2004, 467, 334-341.	0.8	155
87	On the impedance of porous electrodes â€“ double-layer charging and charge transfer on an inhomogeneous inside electrode surface. Journal of Electroanalytical Chemistry, 2004, 561, 29-35.	1.9	20
88	Ultrashort Pulse Laser Interaction with Dielectrics and Polymers. Advances in Polymer Science, 2004, , 247-290.	0.4	153
89	Ultrashort pulse lasers: new aspects of materials interaction. , 2004, , .		6
90	Spot-size dependence of the ablation threshold in dielectrics for femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2003, 77, 883-884.	1.1	79

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91	Electrochemical reactivity of laser-machined microcavities on anodised aluminium alloys. Electrochimica Acta, 2003, 48, 3249-3255.	2.6	6
92	Single- and multi-pulse femtosecond laser ablation of optical filter materials. Applied Surface Science, 2003, 208-209, 233-237.	3.1	35
93	Femtosecond laser interaction with protection materials. Applied Surface Science, 2003, 208-209, 333-339.	3.1	16
94	Report on session â€œCleaning of organic materials: paper, parchment, textile, woodâ€: Journal of Cultural Heritage, 2003, 4, 163-164.	1.5	1
95	Diagnostics of parchment laser cleaning in the near-ultraviolet and near-infrared wavelength range: a systematic scanning electron microscopy study. Journal of Cultural Heritage, 2003, 4, 179-184.	1.5	19
96	Electrochemistry of nano-scale bacterial surface protein layers on gold. Bioelectrochemistry, 2003, 61, 1-8.	2.4	21
97	Physical chemistry of the femtosecond and nanosecond laserâ€“material interaction with SiC and a SiCâ€“TiCâ€“TiB2 composite ceramic compound. Applied Surface Science, 2003, 208-209, 285-291.	3.1	49
98	Homogeneous and amorphous sputtered sp3-bonded BN films at RT: a stress, spectroscopic ellipsometry and XPS study. Diamond and Related Materials, 2003, 12, 1151-1156.	1.8	34
99	Femtosecond laser-induced damage in absorbing filters used for laser protection. , 2002, , .		2
100	Femtosecond and nanosecond laser removal of anodic oxide layers from aluminum. , 2002, , .		7
101	Femtosecond laser ablation of siliconâ€“modification thresholds and morphology. Applied Physics A: Materials Science and Processing, 2002, 74, 19-25.	1.1	684
102	Laser ablation thresholds of silicon for different pulse durations: theory and experiment. Applied Surface Science, 2002, 197-198, 839-844.	3.1	124
103	Femtosecond laser irradiation of indium phosphide in air: Raman spectroscopic and atomic force microscopic investigations. Applied Surface Science, 2002, 202, 272-282.	3.1	57
104	Femtosecond pulse laser ablation of anodic oxide coatings on aluminium alloys with on-line acoustic observation. Applied Surface Science, 2002, 186, 374-380.	3.1	24
105	Femtosecond laser damage of a high reflecting mirror. Thin Solid Films, 2002, 408, 297-301.	0.8	40
106	Intercomparison of scanning probe microscopes. Precision Engineering, 2002, 26, 296-305.	1.8	23
107	A complementary study of bonding and electronic structure of amorphous carbon films by electron spectroscopy and optical techniques. Diamond and Related Materials, 2001, 10, 960-964.	1.8	40
108	A study on the bonding structure and mechanical properties of magnetron sputtered CNx thin films. Diamond and Related Materials, 2001, 10, 1179-1184.	1.8	24

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109	Microcorrosion and shock-affected zone investigation at anodic films on aluminium alloys by pulse laser depassivation. Physical Chemistry Chemical Physics, 2001, 3, 5283-5289.	1.3	8
110	Femtosecond Laser Processing of Soft Materials.. The Review of Laser Engineering, 2001, 29, 705-709.	0.0	40
111	Ultrashort-pulse laser ablation of indium phosphide in air. Applied Physics A: Materials Science and Processing, 2001, 72, 89-94.	1.1	228
112	Biomaterial immobilization on polyurethane films by XeCl excimer laser processing. Applied Physics A: Materials Science and Processing, 2001, 72, 53-57.	1.1	4
113	Electrodeposition of bismuth and silver phases in nanometer-sized zero-dimensional STM-formed cavities on gold(111). Electrochimica Acta, 2001, 47, 679-687.	2.6	20
114	In situ FTIR spectroscopy of the Znâ€“Br battery bromine storage complex at glassy carbon electrodes. Electrochimica Acta, 2001, 47, 815-823.	2.6	45
115	Femtosecond laser damage in dielectric coatings. , 2001, 4347, 24.		10
116	Probing the limits of paper and parchment laser cleaning by multispectral imaging. , 2001, 4402, 130.		10
117	Reactive groups on polymer coated electrodes, 12. New conducting carrier materials: polyalkylthiophene functionalized with amino group and its protected forms. Macromolecular Chemistry and Physics, 2000, 201, 21-30.	1.1	9
118	Reactive groups on polymer coated electrodes: 10. Electrogenerated conducting polyalkylthiophenes bearing activated ester groups. Polymer, 2000, 41, 423-432.	1.8	24
119	Near-UV laser interaction with contaminants and pigments on parchment: laser cleaning diagnostics by SE-microscopy, VIS-, and IR-spectroscopy. Journal of Cultural Heritage, 2000, 1, S233-S240.	1.5	22
120	Photoablation with sub-10 fs laser pulses. Applied Surface Science, 2000, 154-155, 11-16.	3.1	57
121	Ultrashort pulse laser ablation of polycarbonate and polymethylmethacrylate. Applied Surface Science, 2000, 154-155, 555-560.	3.1	200
122	Femtosecond pulse laser processing of TiN on silicon. Applied Surface Science, 2000, 154-155, 659-663.	3.1	86
123	Near-UV and visible pulsed laser interaction with paper. Journal of Cultural Heritage, 2000, 1, S221-S224.	1.5	43
124	Chemical, morphological and accumulation phenomena in ultrashort-pulse laser ablation of TiN in air. Applied Physics A: Materials Science and Processing, 2000, 71, 657-665.	1.1	137
125	Chromate-Free Zinc Conversion Coatings Characterised by Grazing Incidence X-Ray Diffractometry. Mikrochimica Acta, 2000, 133, 137-142.	2.5	6
126	Modeling and diagnostics of pulsed laser-solid interactions: applications to laser cleaning. , 2000, 3885, 499.		18

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127	Femtosecond pulse laser machining of InP wafers. , 2000, , .		2
128	Comprehensive study on the properties of multilayered amorphous carbon films. Diamond and Related Materials, 2000, 9, 756-760.	1.8	32
129	Near-Ultraviolet Pulsed Laser Interaction with Contaminants and Pigments on Parchment: Spectroscopic Diagnostics for Laser Cleaning Safety. , 2000, , 100-107.		5
130	Incubation of laser ablation in fused silica with 5-fs pulses. Applied Physics A: Materials Science and Processing, 1999, 69, 465-466.	1.1	80
131	The precision of the femtosecond-pulse laser ablation of TiN films on silicon. Applied Physics A: Materials Science and Processing, 1999, 69, S399-S402.	1.1	39
132	Femtosecond-pulse laser ablation of dental hydroxyapatite and single-crystalline fluoroapatite. Applied Physics A: Materials Science and Processing, 1999, 69, S403-S407.	1.1	42
133	Femtosecond- and nanosecond-pulse laser ablation of bariumalumoborosilicate glass. Applied Physics A: Materials Science and Processing, 1999, 69, S763-S766.	1.1	49
134	Influence of surface morphology on the oxidation of metal electrodes studied by in-situ grazing incidence x-ray diffractometry. Fresenius' Journal of Analytical Chemistry, 1999, 363, 197-201.	1.5	3
135	Reactive groups on polymer-coated electrodes, 9. New electroactive polythiophenes with epoxy and cyclic carbonate groups. Macromolecular Chemistry and Physics, 1999, 200, 450-459.	1.1	8
136	In-situ grazing incidence X-ray diffractometry observation of pitting corrosion of copper in chloride solutions. Corrosion Science, 1999, 41, 1899-1909.	3.0	47
137	In Situ Investigations of Bromineâ€Storing Complex Formation in a Zincâ€Flow Battery at Gold Electrodes. Journal of the Electrochemical Society, 1999, 146, 3211-3216.	1.3	41
138	In-situ grazing incidence X-ray diffractometry of polycrystalline copper in alkaline chloride and sulphate electrolytes. Electrochimica Acta, 1998, 43, 2979-2984.	2.6	12
139	In-situ grazing incidence X-ray diffractometry investigation of phase change processes at the silver/aqueousâ€“halogenide interface. Electrochimica Acta, 1998, 43, 2985-2989.	2.6	13
140	Laser interaction with coated collagen and cellulose fibre composites: fundamentals of laser cleaning of ancient parchment manuscripts and paper. Applied Surface Science, 1998, 127-129, 746-754.	3.1	52
141	Laser micromachining of barium aluminium borosilicate glass with pulse durations between 20 fs and 3 ps. Applied Surface Science, 1998, 127-129, 892-898.	3.1	38
142	Femtosecond Optical Breakdown in Dielectrics. Physical Review Letters, 1998, 80, 4076-4079.	2.9	820
143	Photochemical surface modification of polyurethane films with biomaterial by excimer laser processing. , 1998, 3274, 128.		1
144	Nanometer precision material ablation and optical breakdown with sub-10 fs pulses. Springer Series in Chemical Physics, 1998, , 313-315.	0.2	0

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145	<title>Pulsed laser deposition of boron carbide: spectroscopic study of laser ablation plasma</title>. , 1997, , .		4
146	<title>Structuring of dielectric and metallic materials with ultrashort laser pulses between 20 fs and 3 ps</title>. , 1997, , .		13
147	Corrosion Behaviour and Mechanical Properties of Plated Zn-Alloys. Transactions of the Institute of Metal Finishing, 1997, 75, 216-218.	0.6	7
148	Combined Scanning Force Microscopy and Electrochemical Quartz Microbalancein-SituInvestigation of Specific Adsorption and Phase Change Processes at the Silver/Halogenide Interface. Journal of Physical Chemistry B, 1997, 101, 2709-2715.	1.2	31
149	Pulsed-laser metal contacting of biosensors on the basis of crystalline enzyme-protein layer composites. Sensors and Actuators B: Chemical, 1997, 40, 231-236.	4.0	13
150	Physico-chemical properties of crystalline nanoscale enzyme-protein-metal layer composites in biosensors. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 1686-1689.	0.9	10
151	Subpicosecond-pulse laser microstructuring for enhanced reproducibility of biosensors. Sensors and Actuators B: Chemical, 1997, 42, 151-156.	4.0	22
152	Pulsed-laser deposition and boron-blending of diamond-like carbon (DLC) thin films. Applied Surface Science, 1996, 106, 158-165.	3.1	32
153	Femtosecond pulse visible laser processing of fibre composite materials. Applied Surface Science, 1996, 106, 383-389.	3.1	37
154	Laser ablation of dielectrics with pulse durations between 20 fs and 3 ps. Applied Physics Letters, 1996, 69, 3146-3148.	1.5	207
155	Femotosecond-Pulse Laser Micromachining of Metal Layer Composites. , 1996, , 966-969.		0
156	Template electrodeposition of nanowire arrays on gold foils fabricated by pulsed-laser deposition. Electrochimica Acta, 1995, 40, 1461-1468.	2.6	27
157	Femtosecond-pulse laser processing of metallic and semiconducting thin films. , 1995, , .		20
158	Femtosecond-pulse laser ablation of human corneas. Applied Physics A: Solids and Surfaces, 1994, 58, 513-518.	1.4	64
159	Transition metal effects in the corrosion protection of electroplated zinc alloy coatings. Electrochimica Acta, 1994, 39, 1151-1157.	2.6	47
160	Pyrite film formation by H2S reactive annealing of iron. Thin Solid Films, 1994, 238, 213-217.	0.8	20
161	Femtosecond pulse laser ablation of metallic, semiconducting, ceramic, and biological materials. , 1994, 2207, 600.		77
162	SHG Measurements of nâ€Si(111)/aqueous Solution Interfaces. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1993, 97, 402-406.	0.9	3

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163	Deposition methods of high-Tc superconductors. Vacuum, 1992, 43, 403-411.	1.6	6
164	Thermodynamic aspects of pyrite film formation by sulphur conversion of iron. Thin Solid Films, 1992, 219, 37-45.	0.8	29
165	An electrochemical impedance spectroscopy study of passive zinc and low alloyed zinc electrodes in alkaline and neutral aqueous solutions. Corrosion Science, 1991, 32, 621-633.	3.0	39
166	Thin Pyrite Films Prepared by Sulphurization of Electrodeposited Iron Films. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1991, 95, 1470-1475.	0.9	32
167	Formation of Yî—¸Baî—¸Cuî—¸oxide thin films by pulsed laser deposition: A comparative study in the UV, visible and IR range. Thin Solid Films, 1990, 191, 317-334.	0.8	58
168	Photoactive thin film semiconducting iron pyrite prepared by sulfurization of iron oxides. Solar Energy Materials and Solar Cells, 1990, 20, 149-165.	0.4	132
169	Thin film preparation of semiconducting iron pyrite. , 1990, , .		2
170	XPS Studies on Emersed Silver Electrodes: Coverage and Bonding State of Specifically Adsorbed Chloride. Journal of the Electrochemical Society, 1990, 137, 3405-3409.	1.3	28
171	XPS Studies of Anodic Surface Films on Copper Electrodes. Journal of the Electrochemical Society, 1990, 137, 2672-2677.	1.3	124
172	Pulsed laser deposition of HI-TC-superconductor films in the ultraviolet, visible, and near-infrared range. Journal of the Less Common Metals, 1990, 164-165, 292-299.	0.9	5
173	Semiconductor properties of passive films on Zn, Znî—¸Co, and Znî—¸Ni substrates and ZnO single crystals. Corrosion Science, 1990, 31, 679-684.	3.0	5
174	Semiconductor Properties of Passive Films on Zn, Znâ€Co, and Znâ€Ni Substrates. Journal of the Electrochemical Society, 1989, 136, 3773-3779.	1.3	55
175	Aluminum-electrocrystallization from metalâ€”organic electrolytes. Electrochimica Acta, 1989, 34, 1213-1218.	2.6	35
176	The galvanic corrosion of steel coatings: aluminum in comparison to cadmium and zinc. Corrosion Science, 1988, 28, 173-199.	3.0	37
177	Optical Anisotropy of Transition Metal Dichalcogenides. A Photoelectrochemical Determination. Physica Status Solidi (B): Basic Research, 1984, 122, 651-659.	0.7	7
178	Electronic mobility anisotropy of layered semiconductors: transversal photoconductivity measurements at n-MoSe2. Journal of Physics C: Solid State Physics, 1982, 15, L519-L525.	1.5	21
179	Formation of an Inversion Layer in nâ€Type MoSe₂ Electrodes: Observation in the Presence of Highly Oxidizing Redox Systems. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1982, 86, 20-25.	0.9	21
180	Anisotropic photocorrosion of n-type MoS2 MoSe2, and WSe2 single crystal surfaces: the role 0f cleavage steps, line and screw dislocations. Surface Science, 1982, 119, 46-60.	0.8	83

#	Article	IF	Citations
181	The impedance of the n-MoSe2/acetonitrile interface: a kinetic and energetic characterization. Electrochimica Acta, 1982, 27, 1035-1042.	2.6	13
182	A kinetic derivation of the photovoltage for electrochemical solar cells employing small-band-gap semiconductors. Electrochimica Acta, 1982, 27, 355-358.	2.6	17
183	Reactivity of water in the oxidation of n-type MoSe2 single crystal electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 137, 239-245.	0.3	13
184	The photoelectrochemistry of the aqueous iodide/iodine redox system at n-type MoSe2-electrodes. Electrochimica Acta, 1981, 26, 1771-1778.	2.6	40
185	A kinetic interpretation of the photocurrents obtained with [Fe(CN)6]4â^', Fe(II), and Iâ^' at n-type MoSe2- and WSe2-electrodes. Electrochimica Acta, 1981, 26, 1709-1713.	2.6	18
186	The Applicability of Semiconducting Layered Materials for Electrochemical Solar Energy Conversion. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1980, 84, 1034-1040.	0.9	89
187	The Role of Carrier Diffusion and Indirect Optical Transitions in the Photoelectrochemical Behavior of Layer Type dâ€Band Semiconductors. Journal of the Electrochemical Society, 1980, 127, 2471-2478.	1.3	118
188	Spot size dependence of femtosecond laser ablation of dielectrics. , 0, , .		0
189	Sub-picosecond laser material interaction. , 0, , .		0
190	Laser cleaning of fibrous substrates. , 0, , .		0
191	Electrodeposition of Metals in Templates and STM Tip-Generated 0D Nanocavities. , 0, , 61-78.		0