

Kenneth M Beck

List of Publications by Year in descending order

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68
papers

1,317
citations

430442

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377514

34
g-index

69
all docs

69
docs citations

69
times ranked

1588
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoemission electron microscopy of a plasmonic silver nanoparticle trimer. Applied Physics A: Materials Science and Processing, 2013, 112, 35-39.	1.1	9
2	Plasmon-induced optical field enhancement studied by correlated scanning and photoemission electron microscopy. Journal of Chemical Physics, 2013, 138, 154701.	1.2	17
3	Near-field focused photoemission from polystyrene microspheres studied with photoemission electron microscopy. Journal of Chemical Physics, 2012, 137, 014202.	1.2	6
4	Exciton-Driven Highly Hyperthermal O-Atom Desorption from Nanostructured CaO. Journal of Physical Chemistry C, 2011, 115, 692-699.	1.5	5
5	Plasmonic field enhancement of individual nanoparticles by correlated scanning and photoemission electron microscopy. Journal of Chemical Physics, 2011, 134, 034507.	1.2	31
6	Surface-Specific Laser Matter Interactions and Dynamics. , 2010, , .		0
7	Effect of surface charge on laser-induced neutral atom desorption. Applied Physics A: Materials Science and Processing, 2010, 101, 61-64.	1.1	1
8	Materials applications of photoelectron emission microscopy. Jom, 2010, 62, 90-93.	0.9	8
9	Two-color laser desorption of nanostructured MgO thin films. Applied Surface Science, 2009, 255, 9562-9565.	3.1	2
10	Vacancies ordered in screw form (VOSF) and layered indium selenide thin film deposition by laser back ablation. Applied Surface Science, 2009, 255, 9707-9711.	3.1	11
11	Excitation, Ionization, and Desorption: How Sub-Band Gap Photons Modify the Structure of Oxide Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 1274-1279.	1.5	16
12	Properties of optical parametric oscillation for dental application of soft-and-hard-tissues removal around 2.9 μm IR-band. , 2009, , .		0
13	Photodesorption of excited iodine atoms from KI (100). Journal of Chemical Physics, 2009, 131, 144509.	1.2	2
14	Laser and electrical current induced phase transformation of In_2Se_3 semiconductor thin film on Si(111). Applied Physics A: Materials Science and Processing, 2008, 93, 93-98.	1.1	18
15	Energy and site selectivity in O-atom photodesorption from nanostructured MgO. Surface Science, 2008, 602, 1968-1973.	0.8	22
16	Electronic energy transfer on CaO surfaces. Journal of Chemical Physics, 2008, 129, 124704.	1.2	4
17	Study of copper diffusion through a ruthenium thin film by photoemission electron microscopy. Applied Physics Letters, 2007, 90, 111906.	1.5	13
18	Synthesis and photoexcited charge carrier dynamics of Fe^{2+} -FeOOH nanorods. Applied Physics Letters, 2007, 90, 103504.	1.5	13

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19	Study of Martensitic Phase Transformation in a NiTiCu Thin-Film Shape-Memory Alloy Using Photoelectron Emission Microscopy. <i>Advanced Functional Materials</i> , 2007, 17, 161-167.	7.8	15
20	Photoemission Electron Microscopy of TiO ₂ Anatase Films Embedded with Rutile Nanocrystals. <i>Advanced Functional Materials</i> , 2007, 17, 2133-2138.	7.8	167
21	An in situ study of the martensitic transformation in shape memory alloys using photoemission electron microscopy. <i>Journal of Nuclear Materials</i> , 2007, 361, 306-312.	1.3	8
22	Excited Carrier Dynamics of $\text{Cr}_2\text{O}_3/\text{Fe}_2\text{O}_3$ Core-Shell Nanostructures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16937-16940.	1.2	19
23	Probing Electron Transfer Dynamics at MgO Surfaces by Mg-Atom Desorption. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18093-18096.	1.2	11
24	Laser-induced oxygen vacancy formation and diffusion on TiO ₂ (110) surfaces probed by photoemission electron microscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 3598-3602.	0.8	6
25	Real Time Study of Cu Diffusion through a Ru Thin Film by Photoemission Electron Microscopy (PEEM). <i>Materials Research Society Symposia Proceedings</i> , 2006, 914, 1.	0.1	0
26	In situ photoelectron emission microscopy of a thermally induced martensitic transformation in a CuZnAl shape memory alloy. <i>Applied Physics Letters</i> , 2006, 88, 091910.	1.5	10
27	Site-specific laser modification of MgO nanoclusters: Towards atomic-scale surface structuring. <i>Physical Review B</i> , 2006, 74, .	1.1	24
28	A mechanism of photo-induced desorption of oxygen atoms from MgO nano-crystals. <i>Surface Science</i> , 2005, 593, 210-220.	0.8	28
29	Surface electronic properties and site-specific laser desorption processes of highly structured nanoporous MgO thin films. <i>Surface Science</i> , 2005, 593, 242-247.	0.8	14
30	Laser Control of Desorption through Selective Surface Excitation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19563-19578.	1.2	48
31	Laser control of product electronic state: Desorption from alkali halides. <i>Journal of Chemical Physics</i> , 2004, 120, 2456-2463.	1.2	13
32	Determination of surface exciton energies by velocity resolved atomic desorption. <i>Surface Science</i> , 2004, 564, 62-70.	0.8	30
33	Surface-Induced Dissociation of Ions Produced by Matrix-Assisted Laser Desorption/Ionization in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>Analytical Chemistry</i> , 2004, 76, 351-356.	3.2	17
34	Time-resolved femtosecond laser desorption from alkali halide crystals. , 2004, , .		0
35	Broad distribution of crystal-field environments for Nd ³⁺ in calcite. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 440-448.	0.3	21
36	Surface electronic spectra detected by atomic desorption. <i>Surface Science</i> , 2003, 544, L683-L688.	0.8	14

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37	Photon stimulated desorption from KI: Laser control of I-atom velocity distributions. <i>Surface Science</i> , 2003, 528, 219-223.	0.8	7
38	Control of laser desorption using tunable single pulses and pulse pairs. <i>Journal of Chemical Physics</i> , 2002, 116, 8144-8151.	1.2	16
39	Solid-state halogen atom source for chemical dynamics and etching. <i>Applied Physics Letters</i> , 2002, 81, 1140-1142.	1.5	8
40	Time-resolved femtosecond laser desorption from wide-bandgap single crystals. , 2002, , .		0
41	EXAFS study of rare-earth element coordination in calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2875-2885.	1.6	73
42	Preparation of Pt/TiO ₂ nanocomposite films by 2-beam pulsed laser deposition. <i>Applied Surface Science</i> , 2002, 197-198, 619-623.	3.1	17
43	Femtosecond time-resolved photo-stimulated desorption from ionic crystals. <i>Applied Surface Science</i> , 2002, 186, 339-344.	3.1	6
44	Transient center photodecomposition in potassium bromide. <i>Applied Surface Science</i> , 2002, 197-198, 581-586.	3.1	3
45	Coprecipitation of Uranium(VI) with Calcite: XAFS, micro-XAS, and luminescence characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3491-3503.	1.6	180
46	Preparation of Pt/TiO ₂ nanocomposite thin films by pulsed laser deposition and their photoelectrochemical behaviors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 145, 11-16.	2.0	47
47	Selective laser desorption of ionic surfaces: Resonant surface excitation of KBr. <i>Journal of Chemical Physics</i> , 2001, 115, 9463-9472.	1.2	35
48	Evidence for a surface exciton in KBr via laser desorption. <i>Physical Review B</i> , 2001, 63, .	1.1	26
49	Time-resolved femtosecond laser-induced desorption from magnesium oxide and lithium fluoride single crystals. <i>Surface Science</i> , 2000, 451, 166-173.	0.8	6
50	Characterization of nanocomposite materials prepared via laser ablation of Pt/TiO ₂ bi-combinant targets. <i>Chemical Physics Letters</i> , 1999, 301, 336-342.	1.2	24
51	Femtosecond time-resolved laser-induced desorption of positive ions from MgO. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S389-S393.	1.1	9
52	Comparison of Pt/TiO ₂ nanocomposite films prepared by sputtering and pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S771-S774.	1.1	12
53	Ultrafast and nanosecond laser-induced desorption of positive ions from lithium fluoride single crystals. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S153-S157.	1.1	5
54	Quantum-state resolved products via vacuum ultraviolet photostimulated desorption from geologic calcite. <i>Applied Surface Science</i> , 1998, 127-129, 21-25.	3.1	1

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55	Photostimulated desorption of CO from geologic calcite following 193-nm irradiation. <i>Physical Review B</i> , 1997, 55, 13253-13262.	1.1	11
56	Atomic and molecular photostimulated desorption from complex ionic crystals. <i>Journal of Electronic Materials</i> , 1997, 26, 1335-1341.	1.0	7
57	Thermal state distributions deduced from (2 + 1) resonance enhanced multiphoton ionization of CO. <i>Chemical Physics Letters</i> , 1996, 256, 297-304.	1.2	9
58	Investigation of distortion and damage of molybdenum-silicon multilayer reflective coatings with high-intensity ultraviolet radiation. <i>Applied Optics</i> , 1993, 32, 6999.	2.1	5
59	UV spectroscopy of perylene-CO van der Waals complexes. <i>Chemical Physics Letters</i> , 1992, 199, 445-454.	1.2	2
60	Vibrational relaxation of highly excited SiF ₄ and C ₆ F ₅ H by Ar. <i>Journal of Chemical Physics</i> , 1990, 92, 6011-6016.	1.2	2
61	Vibrational overtone spectroscopy of OH—Ar complexes. <i>Chemical Physics Letters</i> , 1989, 162, 203-210.	1.2	44
62	Use of piezoelectric ceramics in detection and measurement of pulsed laser radiation. <i>Analytical Chemistry</i> , 1989, 61, 796-797.	3.2	3
63	Theory and application of time-resolved optoacoustics in gases. <i>Journal of Chemical Physics</i> , 1988, 89, 5560-5567.	1.2	29
64	Reply to a Comment on: "The vibrational relaxation of highly excited molecules". <i>Journal of Chemical Physics</i> , 1988, 89, 3399-3400.	1.2	4
65	Comparison of the optoacoustic and mercury tracer methods for the study of energy-transfer processes in gas mixtures. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3839-3842.	2.9	12
66	A Test for Bottlenecks in the Vibrational Relaxation of CH ₃ Cl and CH ₃ Br by Ar. <i>Laser Chemistry</i> , 1988, 9, 47-62.	0.5	1
67	The vibrational relaxation of highly excited SF ₆ by Ar. <i>Journal of Chemical Physics</i> , 1987, 87, 5681-5686.	1.2	49
68	Time-resolved optoacoustic measurements of vibrational relaxation rates. <i>Chemical Physics Letters</i> , 1985, 121, 529-534.	1.2	41