Kenneth M Beck

List of Publications by Year
in descending order

68 papers	1,317 citations	430874 18 h-index	377865 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.	2.3	9
2	Plasmon-induced optical field enhancement studied by correlated scanning and photoemission electron microscopy. Journal of Chemical Physics, 2013, 138, 154701.	3.0	17
3	Near-field focused photoemission from polystyrene microspheres studied with photoemission electron microscopy. Journal of Chemical Physics, 2012, 137, 014202.	3.0	6
4	Exciton-Driven Highly Hyperthermal O-Atom Desorption from Nanostructured CaO. Journal of Physical Chemistry C, 2011, 115, 692-699.	3.1	5
5	Plasmonic field enhancement of individual nanoparticles by correlated scanning and photoemission electron microscopy. Journal of Chemical Physics, 2011, 134, 034507.	3.0	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.	2.3	1
8	Materials applications of photoelectron emission microscopy. Jom, 2010, 62, 90-93.	1.9	8
9	Two-color laser desorption of nanostructured MgO thin films. Applied Surface Science, 2009, 255, 9562-9565.	6.1	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.	6.1	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.	3.1	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.	3.0	2
14	Laser and electrical current induced phase transformation ofÂIn2Se3 semiconductor thin film on Si(111). Applied Physics A: Materials Science and Processing, 2008, 93, 93-98.	2.3	18
15	Energy and site selectivity in O-atom photodesorption from nanostructured MgO. Surface Science, 2008, 602, 1968-1973.	1.9	22
16	Electronic energy transfer on CaO surfaces. Journal of Chemical Physics, 2008, 129, 124704.	3.0	4
17	Study of copper diffusion through a ruthenium thin film by photoemission electron microscopy. Applied Physics Letters, 2007, 90, 111906.	3.3	13
18	Synthesis and photoexcited charge carrier dynamics of Î²-FeOOH nanorods. Applied Physics Letters, 2007, 90, 103504.	3.3	13

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19	Study of Martensitic Phase Transformation in a NiTiCu Thin-Film Shape-Memory Alloy Using Photoelectron Emission Microscopy. Advanced Functional Materials, 2007, 17, 161-167.	14.9	15
20	Photoemission Electron Microscopy of TiO₂ Anatase Films Embedded with Rutile Nanocrystals. Advanced Functional Materials, 2007, 17, 2133-2138.	14.9	167
21	An in situ study of the martensitic transformation in shape memory alloys using photoemission electron microscopy. Journal of Nuclear Materials, 2007, 361, 306-312.	2.7	8
22	Excited Carrier Dynamics of Î±-Cr2O3/Î±-Fe2O3 Coreâ^'Shell Nanostructures. Journal of Physical Chemistry B, 2006, 110, 16937-16940.	2.6	19
23	Probing Electron Transfer Dynamics at MgO Surfaces by Mg-Atom Desorption. Journal of Physical Chemistry B, 2006, 110, 18093-18096.	2.6	11
24	Laser-induced oxygen vacancy formation and diffusion on TiO2 (110) surfaces probed by photoemission electron microscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3598-3602.	0.8	6
25	Real Time Study of Cu Diffusion through a Ru Thin Film by Photoemission Electron Microscopy (PEEM). Materials Research Society Symposia Proceedings, 2006, 914, 1.	0.1	0
26	In situ photoelectron emission microscopy of a thermally induced martensitic transformation in a CuZnAl shape memory alloy. Applied Physics Letters, 2006, 88, 091910.	3.3	10
27	Site-specific laser modification of MgO nanoclusters: Towards atomic-scale surface structuring. Physical Review B, 2006, 74, .	3.2	24
28	A mechanism of photo-induced desorption of oxygen atoms from MgO nano-crystals. Surface Science, 2005, 593, 210-220.	1.9	28
29	Surface electronic properties and site-specific laser desorption processes of highly structured nanoporous MgO thin films. Surface Science, 2005, 593, 242-247.	1.9	14
30	Laser Control of Desorption through Selective Surface Excitation. Journal of Physical Chemistry B, 2005, 109, 19563-19578.	2.6	48
31	Laser control of product electronic state: Desorption from alkali halides. Journal of Chemical Physics, 2004, 120, 2456-2463.	3.0	13
32	Determination of surface exciton energies by velocity resolved atomic desorption. Surface Science, 2004, 564, 62-70.	1.9	30
33	Surface-Induced Dissociation of Ions Produced by Matrix-Assisted Laser Desorption/Ionization in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. Analytical Chemistry, 2004, 76, 351-356.	6.5	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. Physics and Chemistry of Minerals, 2003, 30, 440-448.	0.8	21
36	Surface electronic spectra detected by atomic desorption. Surface Science, 2003, 544, L683-L688.	1.9	14

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37	Photon stimulated desorption from KI: Laser control of I-atom velocity distributions. Surface Science, 2003, 528, 219-223.	1.9	7
38	Control of laser desorption using tunable single pulses and pulse pairs. Journal of Chemical Physics, 2002, 116, 8144-8151.	3.0	16
39	Solid-state halogen atom source for chemical dynamics and etching. Applied Physics Letters, 2002, 81, 1140-1142.	3.3	8
40	Time-resolved femtosecond laser desorption from wide-bandgap single crystals. , 2002, , .		0
41	EXAFS study of rare-earth element coordination in calcite. Geochimica Et Cosmochimica Acta, 2002, 66, 2875-2885.	3.9	73
42	Preparation of Pt/TiO2 nanocomposite films by 2-beam pulsed laser deposition. Applied Surface Science, 2002, 197-198, 619-623.	6.1	17
43	Femtosecond time-resolved photo-stimulated desorption from ionic crystals. Applied Surface Science, 2002, 186, 339-344.	6.1	6
44	Transient center photodecomposition in potassium bromide. Applied Surface Science, 2002, 197-198, 581-586.	6.1	3
45	Coprecipitation of Uranium(VI) with Calcite: XAFS, micro-XAS, and luminescence characterization. Geochimica Et Cosmochimica Acta, 2001, 65, 3491-3503.	3.9	180
46	Preparation of Pt/TiO2 nanocomposite thin films by pulsed laser deposition and their photoelectrochemical behaviors. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 145, 11-16.	3.9	47
47	Selective laser desorption of ionic surfaces: Resonant surface excitation of KBr. Journal of Chemical Physics, 2001, 115, 9463-9472.	3.0	35
48	Evidence for a surface exciton in KBr via laser desorption. Physical Review B, 2001, 63, .	3.2	26
49	Time-resolved femtosecond laser-induced desorption from magnesium oxide and lithium fluoride single crystals. Surface Science, 2000, 451, 166-173.	1.9	6
50	Characterization of nanocomposite materials prepared via laser ablation of Pt/TiO2 bi-combinant targets. Chemical Physics Letters, 1999, 301, 336-342.	2.6	24
51	Femtosecond time-resolved laser-induced desorption of positive ions from MgO. Applied Physics A: Materials Science and Processing, 1999, 69, S389-S393.	2.3	9
52	Comparison of Pt/TiO 2 nanocomposite films prepared by sputtering and pulsed laser deposition. Applied Physics A: Materials Science and Processing, 1999, 69, S771-S774.	2.3	12
53	Ultrafast and nanosecond laser-induced desorption of positive ions from lithium fluoride single crystals. Applied Physics A: Materials Science and Processing, 1999, 69, S153-S157.	2.3	5
54	Quantum-state resolved products via vacuum ultraviolet photostimulated desorption from geologic calcite. Applied Surface Science, 1998, 127-129, 21-25.	6.1	1

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55	Photostimulated desorption of CO from geologic calcite following 193-nm irradiation. Physical Review B, 1997, 55, 13253-13262.	3.2	11
56	Atomic and molecular photostimulated desorption from complex ionic crystals. Journal of Electronic Materials, 1997, 26, 1335-1341.	2.2	7
57	Thermal state distributions deduced from (2 + 1) resonance enhanced multiphoton ionization of CO. Chemical Physics Letters, 1996, 256, 297-304.	2.6	9
58	Investigation of distortion and damage of molybdenumâ€“silicon multilayer reflective coatings with high-intensity ultraviolet radiation. Applied Optics, 1993, 32, 6999.	2.1	5
59	UV spectroscopy of perylene-CO van der Waals complexes. Chemical Physics Letters, 1992, 199, 445-454.	2.6	2
60	Vibrational relaxation of highly excited SiF4 and C6F5H by Ar. Journal of Chemical Physics, 1990, 92, 6011-6016.	3.0	2
61	Vibrational overtone spectroscopy of OHî—¸Ar complexes. Chemical Physics Letters, 1989, 162, 203-210.	2.6	44
62	Use of piezoelectric ceramics in detection and measurement of pulsed laser radiation. Analytical Chemistry, 1989, 61, 796-797.	6.5	3
63	Theory and application of timeâ€resolved optoacoustics in gases. Journal of Chemical Physics, 1988, 89, 5560-5567.	3.0	29
64	Reply to a â€˜â€˜Comment on: â€˜The vibrational relaxation of highly excited moleculesâ€™â€‰â€™. Journal of Chemical Physics, 1988, 89, 3399-3400.	3.0	4
65	Comparison of the optoacoustic and mercury tracer methods for the study of energy-transfer processes in gas mixtures. The Journal of Physical Chemistry, 1988, 92, 3839-3842.	2.9	12
66	A Test for Bottlenecks in the Vibrational Relaxation of CH3Cl and CH3Br by Ar. Laser Chemistry, 1988, 9, 47-62.	0.5	1
67	The vibrational relaxation of highly excited SF6 by Ar. Journal of Chemical Physics, 1987, 87, 5681-5686.	3.0	49
68	Time-resolved optoacoustic measurements of vibrational relaxation rates. Chemical Physics Letters, 1985, 121, 529-534.	2.6	41