

Vadim V Samarkin

List of Publications by Year in descending order

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98
papers

550
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687363

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752698

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99
all docs

99
docs citations

99
times ranked

141
citing authors

#	ARTICLE	IF	CITATIONS
1	State-of-the-Art Technologies in Piezoelectric Deformable Mirror Design. Photonics, 2022, 9, 321.	2.0	11
2	Water-cooled stacked-actuator flexible mirror for high-power laser beam correction. Optics and Laser Technology, 2021, 144, 107427.	4.6	17
3	Laser beam focusing through a moderately scattering medium using a bimorph mirror. Optics Express, 2020, 28, 38061.	3.4	19
4	Wide-aperture deformable mirrors for wavefront distortions compensation in high-power laser complexes. , 2019, , .		0
5	Focusing laser beam through pinhole using bimorph deformable mirror. , 2019, , .		0
6	High-power laser beam formation and focusing by means of adaptive optics : (Invited). , 2019, , .		0
7	Bimorph deformable mirror with a high density of electrodes to correct for atmospheric distortions. Applied Optics, 2019, 58, 6019.	1.8	31
8	Focusing Laser Beam through a Pinhole as an Approach to Enhancing a Free Space Communication Channel via Turbulent Air by Adaptive Optics. , 2019, , .		0
9	Focusing laser beam through pinhole using bimorph deformable mirror. , 2019, , .		0
10	Stacked-actuators deformable mirror vs bimorph mirror for laser beam shaping. , 2019, , .		0
11	Wide aperture high resolution stacked-actuator deformable mirror for high power laser beam correction. , 2019, , .		4
12	New generation of the miniature bimorph mirrors for compensation of the wavefront distortions. , 2019, , .		0
13	Adaptive optics for laser-beam focusing through the pinhole. , 2019, , .		0
14	Water-cooled stacked-actuator deformable mirror for atmospheric applications. , 2019, , .		3
15	High spatial resolution bimorph deformable mirror for laser beam control. , 2018, , .		0
16	Formation of the doughnut and Super-Gaussian intensity distribution by means of different types of wavefront correctors. , 2018, , .		0
17	Comparison of the efficiency of laser beam focusing through the scattering medium using 14- and 31-channel bimorph mirrors. , 2018, , .		0
18	Laser beam focusing through the scattering medium-low order aberration correction approach. , 2018, , .		0

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19	Water-cooled stacked-actuator deformable mirror for high CW power laser beam correction. , 2018, , .		1
20	Fast adaptive optical system for 1.5 km horizontal beam propagation. , 2018, , .		4
21	Extremely large bimorph deformable mirror for high intense laser beam correction. , 2017, , .		0
22	Beam shaping by means of different wavefront correctors. , 2017, , .		0
23	Fast adaptive optical system for the high-power laser beam correction in atmosphere. , 2017, , .		0
24	Laser beam focusing through the atmosphere aerosol. , 2017, , .		3
25	New approaches of uniform focal spot formation by means of deformable mirror. , 2016, , .		0
26	Wide aperture piezoceramic deformable mirrors for aberration correction in high-power lasers. High Power Laser Science and Engineering, 2016, 4, .	4.6	29
27	Ion-assisted coating for large-scale Bimorph deformable mirror. Proceedings of SPIE, 2016, , .	0.8	0
28	Largest in the world bimorph deformable mirror for high-power laser beam correction. Proceedings of SPIE, 2016, , .	0.8	2
29	Problems of uniform focal spot formation by means of deformable mirror. , 2016, , .		0
30	Study of a wide-aperture combined deformable mirror for high-power pulsed phosphate glass lasers. Quantum Electronics, 2015, 45, 1086-1087.	1.0	17
31	Extremely high-power CO ₂ laser beam correction. Applied Optics, 2015, 54, 4352.	1.8	33
32	New approach for laser beam formation by means of deformable mirrors. , 2015, , .		2
33	Adaptive optics system for real-time wavefront correction. Atmospheric and Oceanic Optics, 2015, 28, 381-386.	1.3	52
34	Wide aperture (more than 500 mm) deformable mirrors for high power laser beam correction. , 2014, , .		4
35	Closed loop adaptive system with Hartmann wavefront sensor for CO ₂ laser radiation correction. , 2014, , .		0
36	Adaptive system for high power (more than 100 kW) CW CO ₂ lasers. , 2013, , .		0

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37	Large aperture bimorph deformable mirror for extremely high power laser systems. , 2013, , .		0
38	Extremely high power CO ₂ laser beam correction. Proceedings of SPIE, 2013, , .	0.8	0
39	Wavefront compensation method using a Shack-Hartmann sensor as an adaptive optical element system. Optoelectronics, Instrumentation and Data Processing, 2012, 48, 153-158.	0.6	29
40	Shack-Hartmann wavefront sensor and its problems. Proceedings of SPIE, 2011, , .	0.8	1
41	Laser beam formation by adaptive optics. , 2011, , .		4
42	Multi dither adaptive system based on Shack-Hartmann wavefront sensor. Proceedings of SPIE, 2010, , .	0.8	0
43	Multi-dither algorithm on Shack-Hartmann wavefront sensor for laser beam formation. Proceedings of SPIE, 2010, , .	0.8	0
44	Beam Correction In TiS Lasers By Means Of Adaptive Optics. , 2010, , .		2
45	High power laser beam position stabilization system by means of adaptive optics. , 2010, , .		0
46	Fast adaptive optical system for laser beam correction. , 2010, , .		0
47	Adaptive optical system with water-cooled bimorph deformable mirror. , 2010, , .		1
48	Shack " Hartmann wavefront sensor for measuring the parameters of high-power pulsed solid-state lasers. Quantum Electronics, 2010, 40, 321-326.	1.0	38
49	Shack-Hartmann wavefront sensor - advantages and disadvantages. , 2010, , .		0
50	Hill-climbing algorithm for adaptive optical system with Shack-Hartmann sensor. , 2010, , .		3
51	Deformable mirrors for laser beam shaping. , 2010, , .		16
52	Femtosecond laser beam correction by means of adaptive optics. , 2008, , .		0
53	Shack-Hartmann wavefront sensor versus Fizeau interferometer while optical surfaces testing. , 2008, , .		0
54	Problem of Shack-Hartmann wavefront sensor and interferometer use while testing strongly distorted laser wavefront. Proceedings of SPIE, 2008, , .	0.8	3

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55	Novel development of tiny bimorph mirrors. , 2007, , .		6
56	Screw Phase Dislocation Formation by Means of Flexible Bimorph Mirror. , 2006, , .		1
57	Tiny bimorph mirrors for laser beam control. , 2006, , .		2
58	Adaptive systems for single pulse lasers. , 2006, 6101, 23.		0
59	Correction of the radiation of 1 kW CW diode-pumped glass laser. , 2006, , .		1
60	Adaptive optics and high power pulse lasers. , 2006, , .		1
61	Bimorph flexible mirror for vortex beam formation. , 2006, , .		2
62	Beam Correction in High Intense Lasers. , 2006, , .		0
63	Tiny Multilayer Deformable Mirrors. , 2006, , .		0
64	Water-cooled bimorph correctors. , 2005, 6018, 300.		6
65	Adaptive Correction of a High-Power Titanium-Sapphire Laser Radiation. Journal of Applied Spectroscopy, 2005, 72, 744-750.	0.7	16
66	Closed adaptive systems with controllable bimorph mirrors. Journal of Optical Technology (A) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	0.4	5
67	Characterization of large deformable mirrors. , 2004, 5572, 273.		0
68	High-power lasers and adaptive optics. , 2004, , .		1
69	<title>Adaptive system for high power lasers</title>. , 2003, , .		1
70	Semipassive bimorph correctors for multipurpose applications. , 2003, , .		1
71	Corrections of the aberrations of the high-power lasers. , 2003, , .		0
72	<title>Bimorph mirrors for powerful laser beam correction and formation</title>. , 2002, , .		14

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73	Adaptive system for laser beam formation. , 2002, 4770, 59.		1
74	<title>Adaptive optical system based on bimorph mirror and Shack-Hartmann wavefront sensor</title>. , 2002, 4493, 261.		13
75	Correction of strong phase and amplitude modulations by two deformable mirrors in a multistaged Ti:sapphire laser. Optics Letters, 2002, 27, 1570.	3.3	50
76	Intracavity laser beam shaping by means of flexible corrector. , 2002, 4770, 96.		1
77	<title>Adaptive optics in a multistage TiS laser</title>. , 2002, , .		0
78	Active laser resonator performance: formation of a specified intensity output. Applied Optics, 2001, 40, 6026.	2.1	26
79	<title>Closed-loop adaptive system for laser beam control</title>. , 2001, , .		2
80	Laser resonator with active mirror-generation of Q-switch regime in industrial CO ₂ laser. , 2001, 4184, 282.		0
81	<title>Adaptive optical elements for laser beam control</title>. , 2001, , .		11
82	<title>Quasi Q-switch regime of CO ₂ laser generation</title>. , 2000, 3930, 38.		1
83	<title>Beam quality of a high-power CO ₂ laser with an unstable resonator and a variable-reflectivity mirror</title>. , 1999, , .		0
84	Formation of a specified intensity distribution of the radiation from an industrial cw CO ₂ laser. Quantum Electronics, 1999, 29, 339-340.	1.0	5
85	Given laser output formation: adaptive optics approach--theory and experiment. , 1999, , .		2
86	<title>Low-cost adaptive optical devices for multipurpose applications</title>. , 1999, , .		7
87	<title>Investigation and optimization of generation performances of a CO ₂ laser with unstable resonator and output variable-reflectivity mirror</title>. , 1999, , .		1
88	<title>Formation of the specified laser output by means of intracavity active mirrors</title>. , 1999, 3760, 76.		0
89	Thin-plates test with modified IT-200 Fizeau interferometer. , 1996, , .		0
90	Investigation of industrial CO ₂ laser beam characteristics with intracavity modulator. , 1996, , .		0

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91	Control of high power CO2 laser beam by adaptive optical elements. Optics Communications, 1995, 118, 317-322.	2.1	29
92	Control of high-power CO 2 laser beam. , 1994, 2207, 209.		0
93	<title>Beam characteristics of CO2 laser with controllable output mirror</title>. , 1994, , .		3
94	Adaptive optics for laser beam control. , 0, , .		0
95	Adaptive optics for high power laser beam shaping. , 0, , .		0
96	Closed-loop adaptive optical system with bimorph mirror and shack-hartmann wavefront sensor - advantages and limitations. , 0, , .		0
97	High power lasers and adaptive optics. , 0, , .		0
98	Water-cooled wavefront correctors. , 0, , .		0