

## FULL PUBLICATIONS LIST FOR CAROLIN CRAWFORD

### Research papers in refereed journals:

1. Fabian AC, Walker SA, Russell HR, Pinto C, Canning REA, Salomé P, Sanders JS, Taylor GB, Zweibel EG, Conselice CJ, Combes F, **Crawford CS**, Ferland GJ, Gallagher JS III, Hatch NA, Johnstone RM, Reynolds CR  
2016 MNRAS 461, 922-928
2. Hamer SL, Edge AC, Swinbank AM, Wilman RJ, Combes F, Salomé P, Fabian AC, **Crawford CS**, Russell HR, Hlavacek-Larrondo J, McNamara BR, Bremer MN  
2016 MNRAS 460, 1758-1789  
*Optical emission line nebulae in galaxy cluster cores 1: the morphological, kinematic and spectral properties of the sample*
3. Russell HR, Fabian AC, Taylor GB, Sanders JS, Blundell KM, **Crawford CS**, Johnstone RM, Belsole E  
2012 MNRAS 422 590-599  
*The X-ray luminous cluster underlying the  $z = 1.04$  quasar PKS 1229-021*
4. Canning REA, Russell HR, Hatch NA, Fabian AC, Zabludoff AI, **Crawford CS**, King LJ, McNamara BR, Okamoto S, Raimundo SI  
2012 MNRAS 420 2956-2968  
*Riding the wake of a merging galaxy cluster*
5. Fabian AC, Sanders JS, Allen SW, Canning REA, Churazov E, **Crawford CS**, and 9 more co-authors  
2011 MNRAS 418 2154-2164  
*A wide Chandra view of the core of the Perseus cluster*
6. Canning REA, Fabian AC, Johnstone RM, Sanders JS, **Crawford CS**, Ferland GJ, Hatch NA  
2011 MNRAS 417 3080-3099  
*A deep spectroscopic study of the filamentary nebulosity in NGC 4696, the brightest cluster galaxy in the Centaurus cluster*
7. Canning REA, Fabian AC, Johnstone RM, Sanders JS, **Crawford CS**, Hatch NA, Ferland GJ  
2011 MNRAS 411 411-421  
*Detection of optical coronal emission from  $10^6$ K gas in the core of the Centaurus cluster*
8. Edge AC, Oonk JBR, Mittal R, Allen SW, Baum S A, Böhringer H, Bregman JN, Bremer MN, Combes F, **Crawford CS** and 17 further coauthors  
2010 Astronomy & Astrophysics 518 L47 (5 pages)  
*Herschel photometry of brightest cluster galaxies in cooling flow clusters*
9. Edge AC, Oonk JBR, Mittal R, Allen SW, Baum SA, Böhringer H, Bregman JN, Bremer MN, Combes F, **Crawford CS** and 17 coauthors  
2010 Astronomy & Astrophysics 518 L46 (4 pages)  
*Herschel observations of FIR emission lines in brightest cluster galaxies*
10. Canning REA, Fabian AC, Johnstone RM, Sanders JS, Conselice CJ, **Crawford CS**, Gallagher JS, Zweibel E  
2010 MNRAS 405 115 – 128  
*Star formation in the outer filaments of NGC 1275*
11. Erlund MC, Fabian AC, Blundell KM, **Crawford CS**, Hirst P  
2010 MNRAS 404 629 – 640  
*Two types of shock in the hotspot of the giant quasar 4C74.26: a high-resolution comparison from Chandra, MERLIN and Gemini*
12. Russell HR, Fabian AC, Sanders JS, Blundell KM, Brandt WN, **Crawford CS**, Johnstone RM  
2010 MNRAS 402 1561 – 1579  
*The X-ray luminous cluster underlying the bright radio-quiet quasar H1821+643*
13. Fabian AC, Johnstone RM, Sanders JS, Conselice CJ, **Crawford CS**, Gallagher JS, Zweibel E  
2008 Nature 454 968 - 970  
*HST imaging of the optical emission line filaments of NGC 1275*
14. Erlund MC, Fabian AC, Blundell KM, **Crawford CS**  
2008 MNRAS 385 L125 – L129  
*The Compton-thick quasar at the heart of the high-redshift giant radio galaxy 6C0905+39*
15. Johnstone R, Hatch N, Ferland G, Fabian A, **Crawford CS**, Wilman RJ  
2007 MNRAS 382 1246 - 1260  
*Discovery of atomic and molecular mid infra-red emission lines in off-nuclear regions of NGC 1275 and NGC 4696 with the Spitzer Space Telescope*
16. Barcons X, and 55 co-authors  
2007 Astronomy & Astrophysics 476 1191 - 1203  
*The XMM-Newton Serendipitous Survey V. Optical identification of the XMM-Newton Medium sensitivity Survey (XMS)*
17. Taylor GB, Fabian AC, Gentile G, Allen SW, **Crawford CS**, Sanders JS

- 2007 MNRAS 382 67 - 72  
*Fields and Filaments in the Core of the Centaurus Cluster*
18. Hatch, NA, **Crawford, CS**, Fabian, AC  
2007 MNRAS 380 33 – 43  
*Ionized nebulae surrounding brightest cluster galaxies*
19. Erlund MC, Fabian AC, Blundell KM, Celotti A, **Crawford CS**  
2006 MNRAS 371 29-37  
*Extended inverse-Compton emission from distant, powerful radio galaxies*
20. Salomé P, Combes F, Edge AC, **Crawford CS**, Erlund M, Fabian AC, Hatch NA, Johnstone RM, Sanders JS, Wilman RJ  
2006 A&A 454 437-445  
*Cold Molecular gas in the Perseus cluster core: association with X-ray cavity, H $\alpha$  filaments and cooling flow*
21. Gandhi P, Fabian AC, **Crawford CS**  
2006 MNRAS 369 1566–1576  
*4C +39.29 : extended emission around a Type 2 quasar*
22. Blundell KM, Fabian AC, **Crawford CS**, Erlund MC, Celotti A  
2006 ApJLett 644, L13–L16  
*Discovery of the low-energy cutoff in a powerful giant radio galaxy*
23. Hatch NA, **Crawford CS**, Fabian AC, Johnstone RM  
2006 MNRAS 367 433-448  
*On the origin and excitation of the extended nebula surrounding NGC 1275*
24. Fabian AC, Sanders JS, Taylor GB, Allen SW, **Crawford CS**, Johnstone RM, Iwasawa K  
2006 MNRAS 366 417-428  
*A very deep Chandra observation of the Perseus cluster: shocks, ripples and conduction*
25. **Crawford CS**, Hatch NA, Fabian AC, Sanders JS  
2005 MNRAS 363 216-222  
*The extended H $\alpha$  emitting filaments surrounding NGC4696, the central galaxy in the Centaurus cluster*
26. Iwasawa K, **Crawford CS**, Fabian AC, Wilman RJ  
2005 MNRAS 362 L20–L24  
*X-rays from a Type II quasar in the hyperluminous infrared galaxy IRAS 15307+3252*
27. **Crawford CS**, Fabian AC, Sanders JS  
2005 MNRAS 361 17-33  
*The giant H $\alpha$ /X-ray filament in the cluster of galaxies A1795*
28. Hatch NA, **Crawford CS**, Fabian AC, Johnstone RM  
2005 MNRAS 358 765-773  
*Detections of molecular Hydrogen in the outer filaments of the H-alpha nebula surrounding NGC1275*
29. Gandhi P, **Crawford CS**, Fabian AC, Johnstone RM  
2004 MNRAS 348 529-550  
*Powerful obscured AGN among X-ray hard, optically-dim serendipitous Chandra sources*
30. Fabian AC, Sanders JS, **Crawford CS**, Conselice CJ, Gallagher JS & Wyse RFG  
2003 MNRAS 344 L48-52  
*The relationship between the optical H-alpha filaments and the X-ray emission in the core of the Perseus cluster*
31. Fabian AC, Sanders JS, Allen SW, **Crawford CS**, Iwasawa K, Johnstone RM, Schmidt RW & Taylor GB  
2003 MNRAS 344 L43-L47  
*A deep Chandra observation of the Perseus cluster: shocks and ripples*
32. Fabian AC, Sanders JS, **Crawford CS** & Ettori S  
2003 MNRAS 341 729-738  
*A deep Chandra observation of the cluster environment of the z=1.786 radio galaxy 3C294*
33. **Crawford CS** & Fabian AC  
2003 MNRAS 339 1163-1169  
*Extended X-ray emission around four 3C quasars at 0.55 < z < 0.75 observed with Chandra*
34. Wilman RJ, Fabian AC, **Crawford CS** & Cutri RM  
2003 MNRAS 338 L19-23  
*XMM-Newton observations of two hyperluminous IRAS galaxies: Compton-thick quasars with obscuring starbursts*
35. Bayer-Kim CM, **Crawford CS**, Allen SW, Edge AC & Fabian AC  
2002 MNRAS 337 938-952  
*Multi-wavelength studies of the peculiar cooling flow cluster RX J0820.9+0752*
36. Gandhi P, **Crawford CS** & Fabian AC

- 2002 MNRAS 337 781-794  
*VLT near-IR spectra of hard serendipitous Chandra sources*
37. Edge AC, Wilman RJ, Johnstone RM, **Crawford CS**, Fabian AC, Allen SW  
2002 MNRAS 337 49-62  
*A survey of molecular hydrogen in the central galaxies of cooling flows*
38. Wilman RJ, Edge AC, Johnstone RM, Fabian AC, Allen SW, **Crawford CS**  
2002 MNRAS 337 63-70  
*Exciting molecular hydrogen in the central galaxies of cooling flows*
39. **Crawford CS**, Gandhi P, Fabian AC, Wilman RJ, Johnstone RM, Barger AJ, Cowie LL  
2002 MNRAS 333 809-824  
*Multi-wavelength observations of serendipitous Chandra X-ray sources in the field of A2390*
40. Fabian AC, Allen SW, **Crawford CS**, Johnstone RM, Morris RG, Sanders JS, Schmidt RW  
2002 MNRAS 332 L50-54  
*The missing soft X-ray luminosity in cluster cooling flows*
41. Fabian AC, **Crawford CS**, Iwasawa KI  
2002 MNRAS 331 L57-59  
*A Chandra observation of the distant radio galaxy B2 0902+343: a powerful obscured active galaxy*
42. Fabian AC, Wilman RJ, **Crawford CS**  
2002 MNRAS 329 L18-22  
*On the detectability of distant Compton-thick obscured quasars*
43. **Crawford CS**, Fabian AC, Gandhi P, Wilman RJ, Johnstone RM  
2001 MNRAS 324 427-442  
*Infrared observations of serendipitous hard Chandra X-ray sources*
44. Cowie LL, Barger AJ, Bautz MW, Capak P, **Crawford CS**, Fabian AC, Hu EM, Iwamuro F, Kneib J.-P, Maihara T, Motohara K  
2001 ApJ 551 L9-12  
*Detecting High-Redshift Evolved Galaxies as the Hosts of Optically Faint Hard X-Ray Sources*
45. Fabian AC, **Crawford CS**, Ettori S, Sanders JS  
2001 MNRAS 322 L11-15  
*Chandra detection of the intracluster medium around 3C 294 at  $z=1.786$*
46. Fabian AC, Sanders JS, Ettori S, Taylor GB, Allen SW, **Crawford CS**, Iwasawa K, Johnstone RM  
2001 MNRAS 321 L33-36  
*Chandra imaging of the X-ray core of Abell 1795*
47. Wilman RJ, Edge AC, Johnstone RM, **Crawford CS**, Fabian AC  
2000 MNRAS 318 1232-1240  
*Molecular hydrogen emission in Cygnus A*
48. Fabian AC, Sanders JS, Ettori S, Taylor GB, Allen SW, **Crawford CS**, Iwasawa K, Johnstone RM, Ogle PM  
2000 MNRAS 318 L65-68  
*Chandra imaging of the complex X-ray core of the Perseus cluster*
49. Ebeling H, Edge AC, Allen SW, **Crawford CS**, Fabian AC, Huchra JP  
2000 MNRAS 318 333-340  
*The ROSAT Brightest Cluster Sample - IV The extended sample*
50. Wilman RJ, Johnstone RM, **Crawford CS**  
2000 MNRAS 317 9-22  
*Extended line emission around seven radio-loud quasars at redshift  $z \sim 2$*
51. **Crawford CS**, Vanderriest C  
2000 MNRAS 315 433-449  
*Optical integral field spectroscopy of the extended line emission around six radio-loud quasars*
52. Fabian AC, Smail I, Iwasawa K, Allen SW, Blain AW, **Crawford CS**, Ettori S, Ivison RJ, Johnstone RM, Kneib J.-P, Wilman RJ  
2000 MNRAS 315 L8-12  
*Testing the connection between the X-ray and submillimetre source populations using Chandra*
53. Wilman RJ, **Crawford CS**, Abraham RG  
1999 MNRAS 309 299-324  
*Mapping the gas kinematics and ionization structure of four ultraluminous IRAS galaxies*
54. **Crawford CS**, Lehmann I, Fabian AC, Bremer MN, Hasinger G  
1999 MNRAS 308 1159-1172  
*Detection of X-ray emission from the host clusters of 3CR quasars*
55. **Crawford CS**, Allen SW, Ebeling H, Edge AC, Fabian AC

- 1999 MNRAS 306 857-896  
*The ROSAT Brightest Cluster Sample - III Optical spectra of the central cluster galaxies*
56. Young AJ, **Crawford CS**, Fabian AC, Brandt WN, O'Brien PT  
1999 MNRAS 304 L46-52  
*The optical variability of the narrow-line Seyfert 1 galaxy IRAS 13224-3809*
57. Ebeling H, Edge AC, Bohringer H, Allen, SW, **Crawford CS**, Fabian AC, Voges W, Huchra JP  
1998 MNRAS 301 881-914  
*The ROSAT Brightest Cluster Sample - I The compilation of the sample and the cluster log N-log S distribution*
58. Wilman RJ, Fabian AC, Cutri RM, **Crawford CS**, Brandt WN  
1998 MNRAS 300 L7-10  
*Limits on the X-ray emission from several hyperluminous IRAS galaxies*
59. Reynolds CS, Iwasawa K, **Crawford CS**, Fabian AC  
1998 MNRAS 299 410-417  
*X-ray spectroscopy of the broad-line radio galaxy 3C 111*
60. Wright SC, McHardy IM, Abraham RG, **Crawford CS**  
1998 MNRAS 296 961-976  
*Near-infrared imaging of the host galaxies of BL Lacertae objects*
61. Iwasawa, K, Fabian AC, Brandt WN, **Crawford CS**, Almaini O  
1997 MNRAS 291 L17-22  
*AXJ1749+684: a narrow-emission-line galaxy with a flat X-ray spectrum*
62. Ebeling H, Edge AC, Fabian AC, Allen SW, **Crawford CS**, Bohringer H  
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*The ROSAT Brightest Cluster Sample (BCS): The Cluster X-Ray Luminosity Function within  $z = 0.3$*
63. **Crawford CS**, Vanderriest C  
1997 MNRAS 285 580-592  
*Integral field spectroscopy of a jet-cloud interaction in the quasar 3C254*
64. Bremer MN, Fabian AC, **Crawford CS**  
1997 MNRAS 284 213-224  
*The onset of a powerful radio source in a central cluster galaxy*
65. Gladders MD, Abraham RG, McHardy IM, **Crawford CS**, Merrifield MR, Jones LR  
1997 MNRAS 284 27-31  
*The optical structure and local environment of the BL Lac object 1E 1415.6+2557*
66. **Crawford CS**, Vanderriest C  
1996 MNRAS 283 1003-1014  
*Optical integral field spectroscopy and ROSAT X-ray imaging of IRAS09104+4109*
67. Fabian AC, Cutri RM, Smith HE, **Crawford CS**, Brandt WN  
1996 MNRAS 283 L95-98  
*X-ray emission from the field of the hyperluminous IRAS galaxy IRASF15307+3252*
68. **Crawford CS**, Fabian AC  
1996 MNRAS 282 1483-1488  
*ROSAT observations of distant 3CR radio galaxies – II*
69. **Crawford CS**, Fabian AC  
1996 MNRAS 281 L5-8  
*A ROSAT HRI observation of 3C 356: further evidence for a distant intracluster medium.*
70. Fabian AC, **Crawford CS**  
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*ROSAT HRI observations of IRAS P09104+4109: a massive cooling flow*
71. **Crawford CS**, Edge AC, Fabian AC, Allen SW, Bohringer, H, Ebeling H, McMahon, RG, Voges W  
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*Optical spectroscopy of the ROSAT X-ray brightest clusters - II*
72. **Crawford CS**, Fabian AC  
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73. Perlmutter S, Pennypacker CR, Goldhaber G, Goobar A, Muller RA, Newberg HJM, Desai J, Kim AG, Kim MY, Smail IA, Boyle BJ, **Crawford CS**, McMahon RG, Bunclark PS, Carter D, Irwin MJ, Terlevich RJ, Ellis RS, Glazebrook K, Couch WJ, Mould JR, Small TA, Abraham RG  
1995 ApJ 440 L41-45  
*A supernova at  $z = 0.458$  and implications for measuring the cosmological deceleration*

74. Fabian AC, Shioya Y, Iwasawa K, Nandra K, **Crawford CS**, Johnstone R, Kunieda H, McMahon R, Makishima K, Murayama T, Ohashi T, Tanaka Y, Taniguchi Y, Terashima Y  
1994 ApJ 436 L51-54  
*Fe K emission from the hidden quasar IRAS P09104+4109*
75. Edge AC, Fabian AC, Allen SW, **Crawford CS**, White DA, Bohringer H, Voges W  
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*Zwicky3146 - the Most Massive Cooling Flow*
76. White DA, Fabian AC, Allen SW, Edge AC, **Crawford CS**, Johnstone RM, Stewart GC, Voges W  
1994 MNRAS 269 589-606  
*A ROSAT HRI Observation of the ABELL:478 Cluster of Galaxies*
77. McHardy IM, Merrifield MR, Abraham RG, **Crawford CS**  
1994 MNRAS 268 681-689  
*Hubble Space Telescope Observations of the BL-Lacertae Object PKS:1413+135 - the Host Galaxy Revealed*
78. Fabian AC, **Crawford CS**, Edge AC, Mushotzky RF  
1994 MNRAS 267 779-784  
*Cooling flows and the X-ray luminosity-temperature relation for clusters*
79. **Crawford CS**, Fabian AC  
1994 MNRAS 266 669-677  
*A non-thermal radio/optical/X-ray source in PKS 2316 - 423*
80. **Crawford CS** Fabian AC  
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*On the nature of the blue light in central cluster galaxies*
81. Abraham RG, **Crawford CS**, Merrifield MR, Hutchings, JB, McHardy IM  
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*Is the BL Lacertae object AO 0235 + 164 being lensed by its intervening MgII absorber?*
82. **Crawford CS**, Fabian AC  
1993 MNRAS 260 L15-19  
*A ROSAT observation of the powerful distant radio galaxy 3C 356*
83. Abraham RG, **Crawford CS**, McHardy, IM  
1992 ApJ 401 474-480  
*On the uncertainties in the properties of quasar host galaxies*
84. **Crawford CS**, Fabian AC  
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*Emission-line nebulae around central cluster galaxies in cooling flows*
85. Allen SW, Edge AC, Fabian AC, Bohringer H, **Crawford CS**, Ebeling H, Johnstone RM, Naylor T, Schwarz RA  
1992 MNRAS 259 67-81  
*Optical spectroscopy of the ROSAT X-ray brightest clusters*
86. Bremer MN, **Crawford CS**, Fabian AC, Johnstone RM  
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*Extended optical emission around radio-loud quasars at  $z \sim 1$*
87. Abraham RG, **Crawford CS**, McHardy IM  
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*Optical imaging of BL Lac host galaxies*
88. McHardy IM, Abraham RG, **Crawford CS**, Ulrich M.-H, Mock PC, Vanderspeck RK  
1991 MNRAS 249 742-747  
*PKS1413 + 135 - A BL Lac object in a disc galaxy*
89. **Crawford CS**, Fabian AC, George IM, Naylor T  
1991 MNRAS 248 139-147  
*Implications of the ionizing continuum of 3C263*
90. Fabian AC, **Crawford CS**.  
1990 MNRAS 247 439-443  
*On the Evolution of Quasars in Clusters and Central Cluster Galaxies*
91. Forbes DA, Fabian AC, Johnstone RM, **Crawford, CS**  
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*Extended emission-line gas around the quasars 3C 254 and 3C 309.1 - Very massive cooling flows*
92. **Crawford CS**, Fabian AC  
1989 MNRAS 239 219-245  
*Spectroscopy of extended emission-line gas around quasars at  $z = 0.5-1$*

93. **Crawford CS**, Fabian AC, Johnstone RM, Arnaud KA  
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*A2597 - Another massive cooling flow*
94. Fabian AC, **Crawford CS**, Johnstone RM, Hewett, PC, Allington-Smith JR  
**1988** MNRAS 235 13P-18P  
*WHT spectroscopy of emission-line gas around two separate quasars at  $z = 0.87$*
95. **Crawford CS**, Fabian AC, Johnstone RM  
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*Cooling flows around radio-loud QSO*
96. Fabian AC, **Crawford CS**, Johnstone RM, Thomas PA  
**1987** MNRAS 228 963-971  
*A cooling flow around the quasar 3C 48*
97. Arnaud KA, Johnstone RM, Fabian AC, **Crawford CS**, Nulsen PEJ, Shafer RA, Mushotzky RF  
1987 MNRAS 227 241-256  
*X-ray observations of the Ophiuchus PKS 0745-191 and Cygnus-A clusters of galaxies*
98. **Crawford CS**, Fabian AC, Johnstone RM, Crehan DA  
1987 MNRAS 224 1007-1011  
*Narrow absorption lines from cooling flows*
99. **Crawford CS**, Fabian AC, Rees MJ  
**1986** Nature 323 514-515  
*Double clusters and gravitational lenses*
100. Wood J, **Crawford CS**  
1986 MNRAS 222 645-654  
*An estimate of the system parameters in the dwarf nova IP Peg*

[Research papers in conference proceedings:](#)

1. Erlund MC, Fabian AC, Blundell KM, Celotti A, **Crawford CS**  
2008 *Einstein's relativistic astrophysics Legacy and Cosmology* ESO Astrophysics Symposia, Springer-Verlag, p212  
*Extended inverse Compton emission from distant, powerful radio galaxies*
2. **Crawford CS**  
2006 AN 327 191-195  
*Extended X-ray emission around high-redshift radio galaxies*
3. Hatch NA, **Crawford CS**, Fabian AC, Johnstone RM, Sanders JS  
Proceedings of the The X-ray Universe 2005 (ESA SP-604). Editor: A. Wilson, p.689  
*The Interaction between the Central Galaxy and the Intracluster Medium in Cool Cluster Cores*
4. **Crawford CS**  
2003 Carnegie Observatories Astrophysics Series Vol 3: *Clusters of Galaxies: Probes of cosmological structure and galaxy evolution*, ed Mulchaey JS, Dressler A, Oemler A (<http://www.ociw/symposia/series/symposium3/proceedings.html>)  
*The optical anomalies in central cluster galaxies*
5. **Crawford CS**, Fabian AC, Sanders JS, Etori S  
2003 New AR. 47 239-242  
*A deep Chandra observation of 3C294*
6. **Crawford CS**, Gandhi P, Fabian A  
2003 Astron. Nachr. 324 117-120  
*Optical and near-infrared observations of hard serendipitous Chandra sources*
7. Bayer-Kim CM, **Crawford CS**, Allen SW, Fabian AC, Edge AC  
2003 ASP conference proceedings, "Matter and Energy in clusters of galaxies", eds Bowyer S, Hwang C-Y  
*The peculiar cooling flow cluster RX J0820.9+0752*
8. Barcons X and a cast of thousands  
2002 proceedings of the symposium *New visions of the X-ray universe in the XMM-Newton and Chandra era*,; 26-30  
November 2001 Ed Jansen F  
*The XMM-Newton Survey Science Centre serendipitous sky survey: a progress report*
9. Gandhi P, **Crawford CS**, Fabian AC, Wilman RJ, Johnstone RM, Barger AJ, Cowie LL,  
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11. **Crawford CS**, Fabian AC,; Lehmann I, Hasinger G, Bremer MN.  
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*X-ray Emission from the Host Clusters of Five Intermediate-Redshift 3CR Quasars*,
  12. Ebeling H, Fabian AC, Allen SW, Edge AC, **Crawford CS**.  
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  13. **Crawford CS**  
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  14. **Crawford CS**  
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*High redshift cooling flows*
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*Optical Spectroscopy of the ROSAT brightest clusters*
  18. **Crawford CS**  
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  19. **Crawford CS**, Abraham RG, McHardy IM  
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  20. **Crawford CS**  
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  21. Bremer MN,; **Crawford CS**, Fabian AC, Johnstone RM,  
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  26. **Crawford CS**



Other publications:

1. **Crawford CS**  
2021, *Vision*, CUP  
*Viewing the Universe*
2. **Crawford CS**  
2017, *Astronomy Now*, October  
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3. **Crawford CS**  
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4. **Crawford CS**  
2017, *Astronomy Now*, January  
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5. **Crawford CS**  
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6. **Crawford CS**  
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7. **Crawford CS**  
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